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Volume I
Issue 1

C^3 Science

Chemistry, Cleaning and Care

COVER STORY

PERSPECTIVE ON HOME CARE & DETERGENTS INDUSTRY IN INDIA

IHPCIA
The Indian Home & Personal Care Industry Association

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Indian Home & Personal Care Industry Association (IHPCIA) www.ihpcia.org with American Oil Chemists' Society (AOCS) and International Network of Cleaning Product Association (INCPA)

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Editor's Note

IHPCIA is pleased to launch C-3 Science, a quarterly E-Newsletter starting July 2018. The publication is also actively supported by the AOCS. The e-newsletter is inspired by discussions with members of IHPCIA and our partner organisations, highlighting the need to collate and share the relevant information and news about Global Trends in Home and Personal Care and Cleaning. Some topics of significance include updates on regulations, patents and new technologies and on emerging trends in sustainability, packaging and raw materials. We hope that this newsletter proves beneficial to our members.

The first issue features Overview of the Indian Home Care Industry by Mr. Rajiv Malhotra, DGM Marketing and SBU Head, India Glycols Ltd. This is followed by important Global and Indian News on the industry, global Regulatory Updates and Raw Material and Packaging Trends, and New Patent & IP updates. We have also shared big announcements from our partners and Associate Organizations.

This issue also covers IHPCIA Initiatives on Concentrated Laundry Detergents in water soluble film – Monodose Pouch for Home Care and recommendations from our Regulatory and Reforms & Standards Committee on the Safe Use of Enzymes by Laundry Detergent Manufacturers. The Technical feature section cover two articles on the use of Poly phenolic branched chain fatty acids as potential bio-based, odourless liquid antimicrobial agents; and PAGs: reducing ester vulnerability to hydrolysis.

C-3 Science aims at being a handy and comprehensive quarterly resource sharing global updates relevant for the Indian industry. We request members to provide valuable feedback and help support this initiative by sharing important updates about your Company, any new product launches and related information that you might want to share with the industry. We also welcome your advertisements and invite you to share authored articles on topics of relevant interest and look forward to your continued support.

In the words of Henry Ford "Anyone who stops learning is old. Whether twenty or eighty, anyone who keeps learning stays young."

Let's stay forever young. Happy reading!

Editor

COVER STORY

HOME CARE/DETERGENTS - INDUSTRY OVERVIEW

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Paper Presented at CHEM SPEC /HPIC INDIA
25TH APRIL 2018

GLOBAL HOME CARE MARKET SCENARIO

CLASSIFICATION ON PRODUCT SEGMENT BASIS

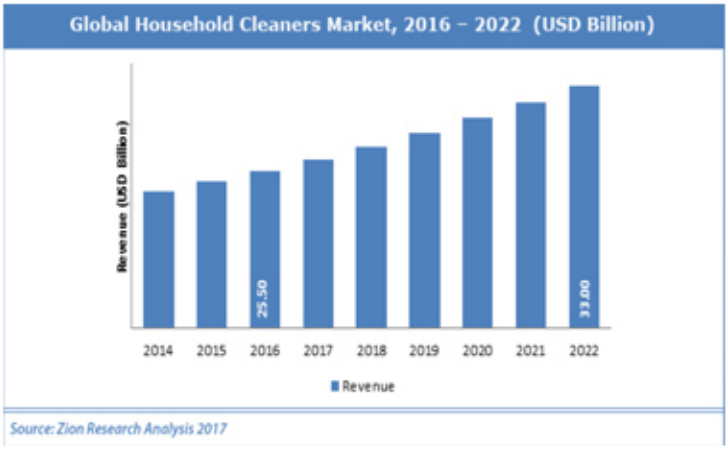
- → DETERGENTS & SPECIALTY CLEANING PRODUCTS
- → SURFACE CLEANING PRODUCTS
- → BLEACHES

CLASSIFICATION ON APPLICATION SEGMENT BASIS

- → KITCHEN CLEANING PRODUCTS
- → FLOOR CLEANING PRODUCTS
- → BATHROOM CLEANING PRODUCTS
- → FABRIC CARE
- → OTHERS

KEY PLAYERS (GLOBAL HOME CARE MARKET)

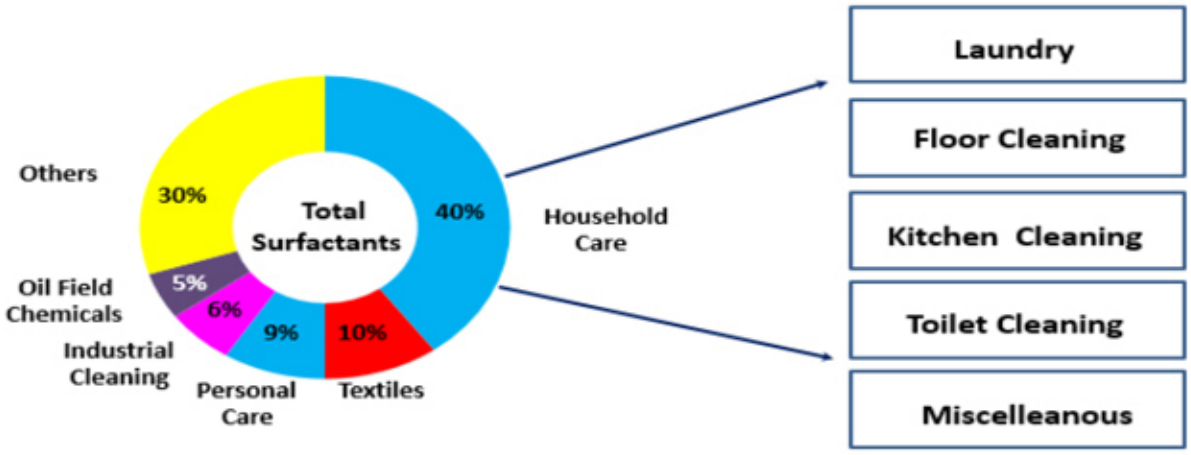
- Colgate-Palmolive
- Henkel
- Procter & Gamble
- Reckitt Benckiser
- Unilever
- Kao
- SC Johnson
- Clorox



HIGHLIGHTS OF GLOBAL HOME CARE MARKET SCENARIO

- Expected to reach approx. USD 33 Billion by 2022 from USD 25.5 Billion in 2016, growing @CAGR of 4.8% between 2017 and 2022.
- Growth due to increased demand in developing countries especially APAC.
- Variety of HC products available in market at lower price to boost the market growth.
- Increasing competition from local manufacturers from APAC may impact the growth.
- Environmental issues due to harmful composition of products forcing manufacturers for R&D of Eco-friendly products.
- N.America is leading regional segment. Expected to hold its position in coming years followed by Europe as 2nd largest market.
- APAC to grow at highest CAGR mainly due to large Indian & Chinese market demand.

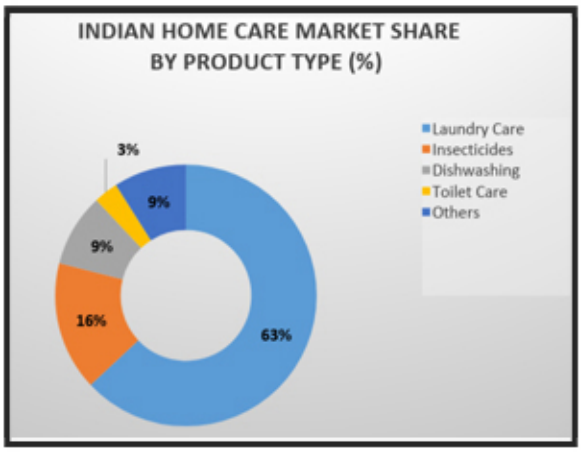
Surfactant Consumption Breakup

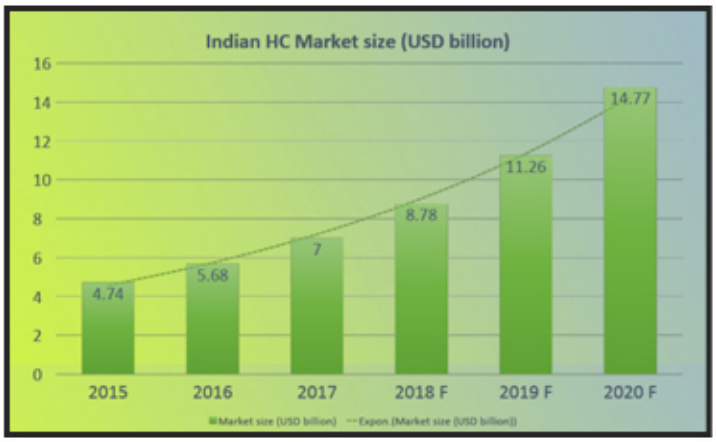


Global Laundry	Machine Wash	Hand Wash	Others
Europe	87	5	8
N. America	82	4	14
Latin America	74	15	11
Asia - Pacific	59	27	14
Africa - Middle East	46	28	26

Liquid Detergents

Liquids + Powders + Bars





Increasing awareness evolves consumer purchases

Leading FMCG Companies in Household Care Segment along with key products

Hindustan Unilever Limited → Rin, Wheel, Cif, Comfort, Domex, Surf excel, Vim

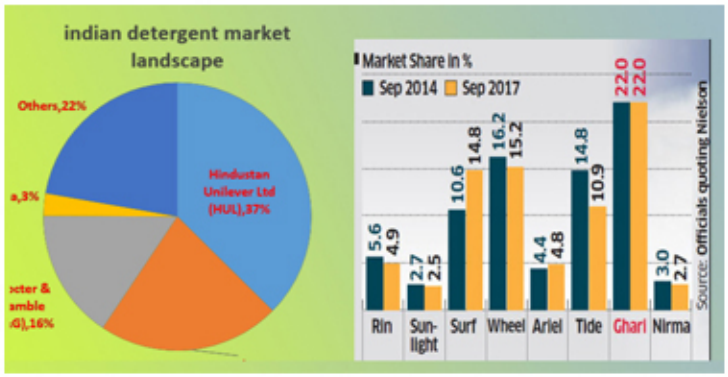
rb HEALTH · HYGIENE · HOME → Lizol, Air Wick, Mortein, Harpic

RSPL EVOLUTION IS CONSTANT → Ghadi, Xpert, Xpert, Uniwash

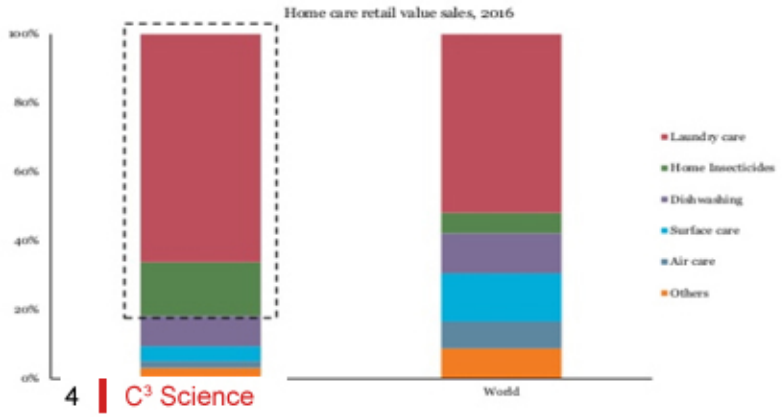
P&G → Ambi Pur, Ariel, Tide Plus

Godrej → Good knight, HIT, aer, Ezee

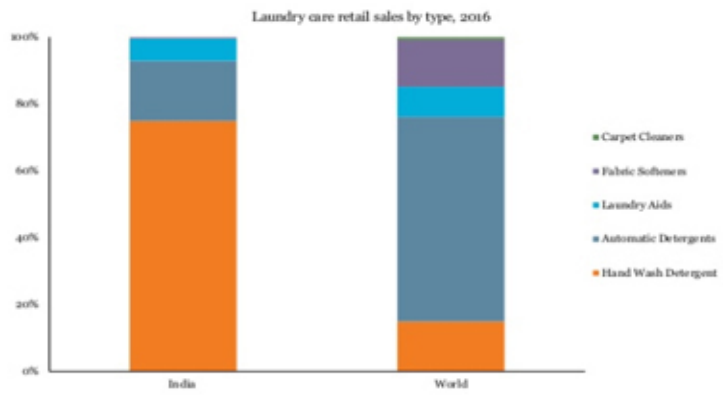
Home care in India remains price driven



Low household income puts laundry care in the spotlight for India



Hand wash detergents still prevalent in India



TRENDS IN INDIAN HOME CARE-DETERGENT MARKET

- → Market moving away towards machine wash.
- → Consumer preference for easy to use liquids or powders.
- → Most of premium market is machine wash.
- → Mid markets graduating towards premium markets
- → Go Green is the strong message for premium and mid mkt sector.
- → Conventional anionic surfactant LABSA & AOS replacement by MES and Non-ionics is the developing trend.

PRESENT FOCUS IN HOMECARE INDUSTRY

Sustainability is a process of continuous improvements

What does sustainability mean to the Household care industry?

"The ability to improve the quality of life for this and future generations, by creating products that promote hygiene and cleanliness, are environmentally sound and are economically successful"

Current trends in the Household care industry

Companies are tapping into the natural/ ecological trend

More-in-one products and shield technology feature in growing numbers of launches

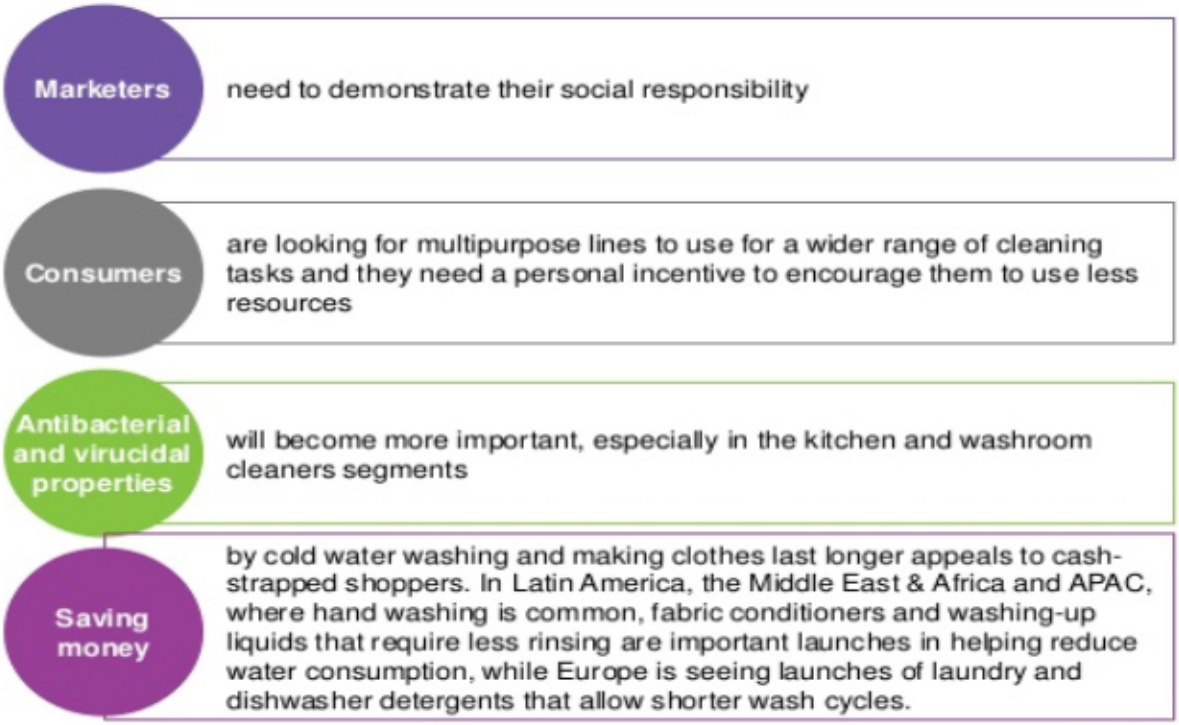
The importance of disinfecting, antibacterial and virucidal household cleaners is growing

Encouraging consumers to change their behavior is critical to saving energy and water

Manufacturers are using ingredients from renewable resources as part of their corporate responsibility programs

Performance textiles with added benefits such as dirt repellency, antibacterial or insect repellent properties are creating new opportunities for fabric care marketers

Looking to the future



TOILET CLEANER SEGMENT IN INDIA

Harpic of Reckitt Benckiser is the prominent brand in the toilet cleaner market.

CLASSIFICATION:

- → Liquid Cleaners
- → Drain Cleaner
- → In – Cisterns & rim block

MAJOR PLAYERS IN INDIA

- → Reckitt Benckiser (India) Ltd.
- → Hindustan Unilever Limited
- → Dabur India Limited
- → SC Johnson Products Pvt. Ltd.
- → Future Consumer Enterprise Ltd.
- → Fena Private Limited
- → Other Pvt Label brands

TRENDS IN TOILET CARE SEGMENT IN INDIA

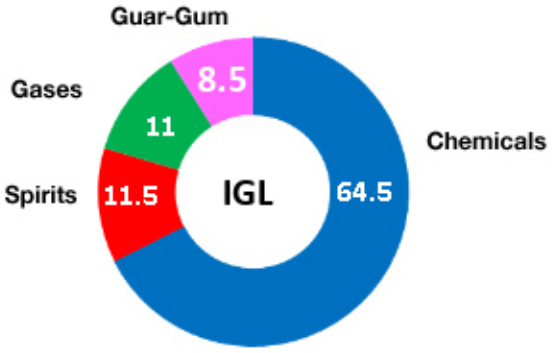
- Overall market for toilet cleaners is growing with more than 18% CAGR from last five years
- Market is further expected to grow with double digits in the next five years.
- Government's Swachh Bharat Abhiyan initiative boosts demand for toilet care
- Companies investing heavily in spreading hygiene awareness
- Manufacturers are expanding into tier II & III cities which are set to register robust growth in the forecast period
- Toilet liquids remains most popular toilet care product
- Competitive landscape
- Focus on internet retailing and social media attracting consumers

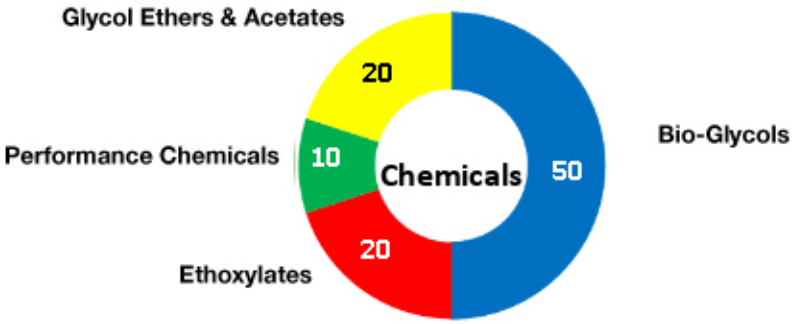
Company Profile

India Glycols Limited - Owned by Bhartia Group – Mr U. S. Bhartia (Chairman)

It is a US$ 550 million company (2016-2017) CAGR – 25% since 2012.

Total Production Capacity – 5,20,000 MTPA





India Glycols Portfolio

Chemistries

- Esterification
- Transesterification
- Sulphation
- Sulphosuccinates
- Phosphation
- Alkylation
- Polymerization
- Emulsion polymer
- Resins
- Carbohydrate

→ Textiles
→ Paints
→ Paper & Inks
→ Pharmaceuticals
→ Personal Care
→ Agrochemicals
→ Oil Field Chemicals
→ Home Care








GLOBAL NEWS

ACI comments on NY Cleaning Product Ingredient Disclosure

The American Cleaning Institute (ACI) released the following statement in response to a final policy announced by the New York State Department of Environmental Conservation requiring online disclosure of chemicals in household cleaning products:

"The American Cleaning Institute is disappointed by the Department's insinuation that consumers need 'protected' from ingredients in household cleaning products. The fact is that millions of people safely and effectively use cleaning products every day in homes, offices, healthcare facilities and many other commercial settings.

"This action by DEC is unnecessary and burdensome to manufacturers who will be forced, byJuly 1, 2019, to create new websites in order to sell their products to the citizens of New York.

"Consumers should understand that cleaning product manufacturers already provide detailed information online about the ingredients in the products they use safely and effectively every day. This information is provided on brand and/or manufacturer websites.

"There is more information available online than ever before about ingredients contained in consumer cleaning products.

"American Cleaning Institute members participate in the Consumer Product Ingredient Communication Initiative (http://www.cleaninginstitute.org/ingredient_central/), a comprehensive voluntary program in effect since January 2010.

"The flexibility of the program facilitates strong marketplace ingredient communication by manufacturers with the customer base they serve. Participating consumer cleaning product manufacturers list all ingredients except incidental ingredients that have no technical or functional effect in the product. These labeling options provide for a wide variety of product sizes, information content, and means of information distribution.
"Additionally, safety data on hundreds of chemicals in the U.S. consumer cleaning product supply chain have been collected and are now available through the website for ACI's Cleaning Product Ingredient Safety Initiative (CPISI).

"More than five years of work on the Initiative has been finalized, providing reams of publicly available data on ingredients in cleaning products; this data accounts for the scientific backbone to cleaning product ingredient safety.

"The CPISI website represents a significant transparency initiative for the cleaning products industry, and provides a striking counterweight to the urban myths that there are no data available on common cleaning product ingredients."
(Source: Happi news - 6 June, 2018)

LVMH KOREA ordered to recall dangerous Dior nail glow product

The Korean affiliate of beauty company LVMH has been ordered to recall its Dior Nail Glow product due to the inclusion of hazardous ingredients within the formula.
According to the Ministry of Food and Drug Safety, the company is to cease all sales of the product and to recall those already on the market due to the items thought to include the harmful ingredient fluorescent brightener 367.
The items were imported from the French manufacturer Parfums Christian Dior and sold via the local affiliate. While the brightener is often used to create a lightening effect due to the chemical compound absorbing light in the ultraviolet and violet region of the electromagnetic spectrum, Korean authorities have become concerned over allergic reactions when in contact with the skin and have since recommended that companies do not include the ingredient in cosmetic products.
According a Ministry of Food and Drug Safety official, "Although the United States and Europe have yet to prohibit manufacturers from adding fluorescent brightener to cosmetics, Korea has banned cosmetics manufacturers from
using it, as a preemptive measure."
(Source: Global Cosmetic News - 7June, 2018)

Henkel launches new cleaning products for industrial surfaces

Henkel has developed four new cleaning products designed to bring a host of advantages to those faced with cleaning industrial surfaces and components. New cleaners, defoamers and descalers are now available, all offering differentiation against competitor products and the ability to deliver competitive gain for users.

There are four fundamental parameters associated with cleaning: chemicals, mechanics, temperature and time. Ensuring the cleaning process is as efficient and cost effective as possible means looking for the optimum balance between the four.

To help identify the ideal chemical, there is again a four step rule which can be applied to almost any cleaning challenge: identify the contamination to be removed; identify the necessary characteristics of the cleaner required; specify the application type, such as manual, spray, dip or ultrasonic; and select the cleaner's product group – alkaline, neutral or acidic.

Henkel has introduced a new mild alkaline parts cleaner aimed at the maintenance market. Bonderite C-MC 90014 offers strong degreasing properties without any of the harmful vapour issues associated with solvents. Featuring low VOC content of ±6%, the product is non-flammable and safe to use on painted surfaces. Moreover, it provides fast evaporation without any visible residue and can be applied either manually or via a fountain table. It can also provide temporary corrosion protection of the cleaned surface.

Another new innovation from Henkel is Bonderite C-MC 21130, an environmentally compatible product for cleaning off uncured paints and adhesives. It is ready-to-use (although can be diluted up to 80%) and contains 50% less VOC than conventional solvent cleaners. Designed to dissolve both aqueous and solvent-containing paints, lacquers, varnishes, latex, rubber, resins and electrophoretic deposits (EPD), it will even remove adhesives such as cyanoacrylates, silicones, two-component PU silicones and other bi-component polyurethanes (provided they have not completely dried). It is non-flammable and odourless up to 40°C. In addition, it can be recycled up to a certain percentage using a simple distillation process. The product is remarkably easy to use: simply apply with a brush or spray gun and wipe the paint away with a cloth.

For those seeking new descaler innovations, Henkel can now offer Bonderite C-IC 90001 acid foam, which provides a highly effective replacement for hydrochloric acid (HCl). This product not only removes scale, but also salts, light grease and carbon steel contamination from stainless steel. Furthermore, it passivates stainless steel, emits no hazardous fumes and, as a stable foam, allows long contact time and application even on vertical surfaces. Last is Bonderite C-AD RT 1020S, a low temperature cleaner for surface preparation prior to painting. This product is designed to offer a significant cost reduction for users as the pre-treatment tank only requires heating to 30°C, as opposed to 55°C using conventional cleaners. Due to the lower temperature, worker safety is also improved.
(Source: Engineerlive.com - 6 June, 2018)

Indorama Ventures to buy majority stake in Israel's Avgol

Bangkok-based petrochemical producer Indorama Ventures has agreed to buy a 65.72 percent stake in Israel's Avgol Industries for about $314 million, the companies said.

Indorama will pay 5.78 shekels per share for a 50.76 percent in Avgol held by HFH International, and 14.96 percent owned by Leumi Partners, a subsidiary of Bank Leumi.

Bank Leumi said it expects a pre-tax gain of 118 million shekels ($33 million) from the sale. Avgol is a manufacturer of nonwovens for hygiene applications and holds a global market share of 10 percent. Its fabrics are used in diapers and feminine hygiene products.

Shares in Avgol, which has a market valuation of 1.16 billion shekels, were up 8.4 percent to 4.28 shekels in morning trade.

The transaction is expected to be completed during the second half of 2018, subject to regulatory approvals, Indorama said.
(Reuters.com - 13 May, 2018)

Henkel acquires Canadian home care company JemPak

Henkel signed an agreement with the Toronto Stock Exchange-listed company Acasta Enterprises Inc. to acquire JemPak Corporation, Canada, for 118 million Canadian dollars (around 77 million euros) on a cash free and debt free basis. In fiscal 2017, JemPak Corporation reported sales of around 90 million Canadian dollars (around 60 millioneuros) and employs about 140 people. Based in Concord, Canada the business is focused on the US and the Canadian laundry and home care retailer brands business and offers products in attractive and growing categories such as automatic dishwashing, laundry caps and fabric finishers. It operates two manufacturing sites. "This acquisition complements and strengthens our existing laundry and home care portfolio in North America. We will further expand our No. 2 market position in this attractive market and will strengthen our leading position in the retailer brands category in North America," explained Bruno Piacenza, Executive Vice President and responsible for Henkel's Laundry & Home Care business.
(Henkel.com - 10 May, 2018)

ISSA and Afidamp Create Jointly Owned Global Platform

ISSA and Afidamp FAB, the Italian trade association for cleaning industry manufacturers, have announced a new partnership focused on jointly developing and executing go-to-market opportunities for their members and the industry at-large, on a global scale.

This new collaboration is one step in a larger international expansion strategy for both associations. Under the joint project, ISSA and Afidamp will co-own the existing Pulire family of events, both exhibitions and educational events, as well as develop new options to help connect members and share knowledge across the worldwide cleaning industry.

"ISSA's goal is to increasingly help our members where they need it, globally, with an expanded set of go-to-market options," said John Barrett, ISSA Executive Director. **"Afidamp FAB's"** existing network of Pulire exhibitions and executive

Forum events on multiple continents complement ISSA's growing initiatives and events in complementary countries. We see this as a great opportunity to share expertise between the two organizations to reimagine how the industry can do business on the world stage."
As part of the agreement, all **ISSA** members will receive a discount to exhibit at the Pulire Verona exhibition May 21-23, 2019, and all Afidamp FAB members will become members of ISSA and gain access to its full suite of member benefits.

The partnership also plans to develop new projects, such as an expanded series of Forum executive summits on multiple continents. The first of the expanded Forum events will take place later this year, the Pulire America Forum, in Brazil, August 9-10, produced with local partner **FACOP (Fundação de Asseio e Conservação do Estado do Paraná)**. Also under development is a new industry education and certification offering specifically for the Italian market.

"Over the last 15 years, Afidamp has created an international platform, Pulire, aimed to satisfy the cleaning industry's interest in many developing countries," said Toni d'Andrea, Executive Director of Afidamp.
"Our goal is to open a dialogue among these countries to coordinate actions, qualify contacts, share experiences, and strengthen the importance of cleaning as an absolute social value.

Afidamp and ISSA working together will further this mission by setting more ambitious, new global projects."
The move expands ISSA's footprint in **Europe, the Middle East, Latin America, and Asia,** adding to its growing family of events and activities under recent deals in Australia, Canada, Europe, Latin America, and South Africa.
ISSA has made it known that it is committed to creating a more unified voice for the global cleaning industry and that call has resonated with many organizations in various countries over the past two years, leading to 14 mergers and partnerships that have expanded the association's membership by more than 2,000 organizations in 2018 alone, for a total of 9,200 corporate members.
"The world is increasingly more connected, and cleaning industry leaders have begun to recognize that the largely localized and fragmented nature of associations and industry events no longer fits today's demanding business model," said Dianna Steinbach, **ISSA** Vice President of International Service. "We must come together to find common efficiencies and evolve how we meet the world's growing commercial and institutional cleaning needs."
"This has been a partnership a long time in the making," said Barrett. "We are pleased to take better advanta ge of the long- standing relationship between ISSA and Afidamp, to create new possibilities.
"This isn't just an American group and Italian group talking only about exhibitions. We are looking at the global landscape
to paint a more comprehensive picture of the global cleaning industry, its needs and its potential. And we encourage others in the industry to join us to define the landscape of tomorrow."
More details will be forthcoming in the next few months regarding new developments at the Pulire exhibition in Verona 2019, the global Forum series, and more. For more information, contactDianna Steinbach, Vice President of International
Services, orToni d'Andrea, Executive Director of Afidamp.
(ISSA News - 8 May, 2018)

GIES Named Executive Director of ISSA Foundation

ISSA, the worldwide cleaning industry association, has hired Michael "Mike" Gies as executive director to head up the ISSA Foundation, the giving arm of the association. In his new role, Gies will work to ensure that the Foundation has a long-range strategy to achieve its mission, including building new long-term sponsorships and developing programs, organizational and financial plans, and goals for the Foundation and its growing branches, such asCleaning For A Reason.

He will also spearhead fundraising for the Foundation and work with the ISSA Foundation and ISSA boards and the ISSA Finance Committee to prepare annual budgets and ensure that the foundation operates within the budgetary guidelines.

"We are looking to take the ISSA Foundation to the next level in support of its mission of Investing in Tomorrow, said ISSA Executive Director John Barrett. "To do this, we need a talented, experienced leader to help us refocus our efforts to be more meaningful to our membership, while continuing to provide financial and other services to help make a difference in the lives of the many people touched by our organization and in our industry. Given his proven track record in both the for profit and nonprofit sectors, Mike is clearly the man for this job."

Gies will oversee the entire Foundation, including Cleaning For A Reason, the charitable partner that works with professional cleaning companies to donate free house cleanings to women battling cancer throughout the United States and Canada. Under Gies' leadership, ISSA will bring new resources and capabilities, and in turn, more influence and exposure to Cleaning For A Reason as a whole.

"I am so excited about the future for Cleaning For A Reason," said Founder Debbie Sardone. "The vision Mike Gies and ISSA have for Cleaning For A Reason is incredibly inspiring and beyond my wildest expectations. I am certain this new partnership and leadership will enable us to serve more people with cancer than ever before!"

Also happening at ISSA is a partnership withAfidamp FAB, the Italian trade association for cleaning industry manufacturers. The pairing will focus on jointly developing and executing go-to-market opportunities for their members and the industry at-large on a global scale.

(HAPPI News - 8 May, 2018)

Sabo S.p.A acquires personal care business of Domus Chemicals S.p.A

Sabo S.p.A. has acquired the personal care business unit of Domus Chemicals S.p.A. and the brand Domuscare, a line of high quality specialty esters and emollients. According to Sabo, this acquisition will reinforce the personal care position of Sabo in the cosmetics market and allows both parties to leverage their strengths and innovative capabilities in the development, manufacturing and distribution of new sustainable products based on existing technologies and to build a long term collaboration in other fields for the future.
(Company Press release - 8 May, 2018)

IFF acquires Frutarom in biggest flavor deal worth US$7.1b

International Flavors & Fragrances Inc. agreed to acquire Israeli flavor maker Frutarom Industries Ltd. in a deal valued at US$7.1 billion including debt in what's set to be the largest transaction in the rapidly-consolidating food flavoring industry.

Under the cash and stock combination, shareholders of Haifa, Israel-based Frutarom will receive the equivalent of US$106.25 per share, according to a joint statement on Monday. The purchase price represents an 11 per cent premium to Frutarom's closing price on May 6 and the deal has been unanimously approved by the boards of both companies. Frutarom shares jumped as much as 6.7 per cent, the most in a month.

The deal will cap a spree of transactions for Frutarom Chief Executive Officer Ori Yehudai, who has has been a veritable mergers and acquisitions machine overseeing the purchase of more than 25 companies since 2015.

Frutarom said last month it was considering a potential sale, and a person with direct knowledge of the matter said more than three firms had expressed interest in buying the creator of food flavors from alfalfa and wild cherry bark. For IFF, buying Frutarom is a way of tapping into the faster-growing middle-market segment that the Israeli company focuses on.

Deals have increased in recent years as top flavor and fragrance players gobble up smaller firms to fuel growth, which has made transactions more expensive. Industry leader Givaudan SA paid US$1.6 billion for natural flavor maker Naturex this year, a price tag valued as much as 22 times earnings, which analysts deemed steep.

Frutarom is mainly focused on natural products, one of the fastest-growing segments in the personal-care and food industries, as consumers increasingly look to avoid artificial coloring and flavors. IFF, based in New York, said the deal would help its strategy to create a global leader in "natural taste, scent and nutrition." Frutarom shareholders will receive US$71.19 in cash and 0.249 of a share of IFF for every share in the company.

The shares gained as much as 6.7 per cent, the most in almost a month, and were up 6.2 per cent up 359 shekels in Tel Aviv. That values the stock at 21 billion shekels.

(Business Times - 7 May, 2018)

DowDuPont, ADM open bioplastis pilot project in ILL.

Archer Daniels Midland Co. and DowDuPont have not yet decided where to build a commercial manufacturing facility for theirnew bioplastic technology, a plastic derived from corn being made to compete against the petroleum-based plastics that have been used for decades to bottle soda and other products.

But "Decatur is one of those possibilities," said Greg Webb, ADM's vice president of state government relations. Representatives from the two multinational giants gathered in Decatur on Monday to celebrate a pilot plant for the new material becoming fully operational.They announced their partnership in January 2016, and that yearwon the Breakthrough Solution of the Year Awardfrom Platts Global Energy for their work.

The small shards of plastic the plant can now churn out "will be the material we can bring to customers, and say's Here, this is exactly what you're going to get once we make the commercial product," said Mike Saltzberg, DuPont global business director.

Run by a crew of about 30 ADM employees, the material made at the test facility is called furan dicarboxylic methyl ester, or FDME. Developers of the product from ADM and DowDuPont say FDME can either be combined with another plant-based material made by DowDuPont to form a plastic entirely free of petroleum, or it could be blended with traditional plastics to create stronger and more resilient packaging.

That's because FDME is 15 times stronger than the current conventional plastic used in bottles of soda around the world. Companies that manufacture and package consumer products like soda wouldn't have to use as much material to produce a bottle that can stay on grocery store shelves until it is sold, as they do with petroleum plastic.

Decatur is in the running for a commercial plant of FDME, executives from both companies said, because the most cost-efficient location would mean having close access to cheap, high-quality fructose, the sugar that comes from corn. That means setting up shop near one of ADM's corn wet mills.

"ADM has a fleet of these types of corn processing plants, principally in the Corn Belt, ranging from Marshall, Minnesota, in the north to Decatur to the south," Webb said. "So we will make a decision once this becomes scalable and we can do it confidently. Then we'll make some decisions likely with (DowDuPont) based on where the right logistics economics are."

The agribusiness giant is already Decatur's largest employer with some 4,000 employees at various facilities in the city, where its North American headquarters are located. It's unclear how many full-time jobs a commercial plant producing FDME would bring. The current facility of 30 workers can handle a capacity about 1,000th of the final product.

"We're always hoping for growth and high-paying jobs, because we want to grow our own here,"said Decatur Mayor Julie Moore Wolfe, who was on hand for the ribbon-cutting of the test facility. Regardless of where the new plant ends up, ADM and DowDuPont executives say FDME will create a new market for corn producers.

"This project fits into that, here we are creating new markets to do what we call & diversify the grind — to find new applications for corn," Saltzberg said.

It's too early to predict how much demand DowDuPont, the ultimate seller of the product, will find in the market from bottlers like the Coca-Cola Company, PepsiCo. and others. Market forces would include the price of corn-sugar processing and how much the new plastic could undercut the demand for traditional petroleum plastics.Oil prices have jumped in the past year by $20 to $68 a barrel.
(Herald & Review – 1 May, 2018)

Azelis Personal Care Opens New Application Lab

Azelis has opened a new Personal Care application lab in Indiana to support the growing demand from customers.

"The personal care market is incredibly important to Azelis. We are committed to being a leader in this sector and as such, will continue to invest in resources that benefit our customers and strategic suppliers," said Frank Bergonzi, Azelis CEO and president, Americas. " Our partnership with premiere principals, combined with our expert technical sales resources and application labs, allow our Personal Care team to innovate and provide market-leading solutions for our customers."

The application lab is located within the 60,000 square-foot Purdue Technology Center in the Purdue Research Park of Northwest, IN.

The building is run by the Purdue Research Foundation, which is connected to the local Purdue Northwest satellite campuses in Northwest, and its main campus in West Lafayette.

The lab has the capability to formulate various skin, color cosmetics and hair care products using Azelis ingredients and starting point formulations.

"In the highly competitive personal care market, customers need to move faster, while tapping into new innovations. They rely on Azelis to provide the technical expertise and formulation assistance that will help them to shorten their time to market. That is why Azelis is adding this new application lab," added Tim Dooling, managing director, personal care and home care and industrial cleaning, Americas.

"Market share is shifting with more prominent growth from small, lifestyle and indie brands. Our new hard asset lab, in combination with our digital formulation collaboration channels are the value-added services that make a difference to support their trend-driven innovation R&D," said Julia Hernandez, VP of marketing, personal care and home care and Industrial cleaning, Americas.

(Happi.com - 11 April, 2018)

Aesop and The Body Shop win out in PETA's Vegan fitness awards 2018

Animal rights charity PETA has announced the winners of its 2018 Vegan Fitness Awards, with two Natura-owned brands taking the top spots.

Aesop was awarded the best vegan and cruelty-free deodorant accolade, with PETA stating, "Keeping you fresh during your workout, this unisex deodorant from stylish Australian brand Aesop is made with a blend of luxurious essential oils – and it's completely free of aluminium, animal-derived ingredients, and cruelty."

Meanwhile The Body Shop's Tea Tree Skin Clearing Facial Wipes were named as the best Vegan and Cruelty-Free Cleansing Wipes, with Le Labo Hinoki Shampoo, Conditioner, and Shower Gel coming out as the best Vegan and Cruelty-Free Sports Bag Essentials.

According to PETA, 'The PETA Vegan Fitness Awards celebrate the products, athletes, and influencers at the top of their game.' And with 3.5 million British consumers now being vegan, according to a comparethemarket.com survey, the rise and rise of vegan beauty brands is ongoing.

(Global Cosmetic News - 30 April, 2018)

SC JOHNSON shares ingredient selection criteria in new transparency drive

SC Johnson has become the first major consumer packaged goods company to disclose the fragrance chemicals used in scented products such as air fresheners, candles and scented oils. SC Johnson published a list on its website of more than 200 ingredients included in Glade products. The bold move could signify the start of a trend in which fragrance companies, operating in the personal care markets as well as household goods, may also be expected to disclose chemical ingredients in their products.

While ingredients in air freshener products and candles such as dyes and waxes are currently listed on packaging, scents are often simply listed as "fragrance" with the chemicals included in the fragrance remaining a mystery to consumers.

Yet SC Johnson has now disclosed that its 'Aruba wave' scent, for example, includes the chemicals 2-t- butylcyclohexyl acetate, 2,6-dimethyl-7-octen-2-ol, allyl caproate, benzyl salicylate, ethyl 2,2-dimethyl hydrocinnamyl and ethyl hexanoate.

Consumer are increasingly expressing concern regarding the toxicity and potentially harmful effects of certain chemicals in cosmetics.

SC Johnson's expanded disclosure gives consumers additional information, enabling them to make informed choices when purchasing products.

"We take great care in making ingredient choices to offer products that are both safe and effective," said Fisk Johnson, Chairman and CEO of SC Johnson. *"Earning consumer trust can only happen when companies are willing to lay it all out there. Expanded fragrance disclosure and ongoing transparency initiatives are vital to building consumer trust and credibility. That is why we continue to advocate for and promote transparency."*

Charities such as Breast Cancer Fund have welcomed the disclosure yet highlight that there is still a significant way to go until companies are fully transparent with customers.

"It's a good first step but it doesn't go far enough," Ms. Nudelman told The New York Times, noting that many of the chemicals her group is concerned about have harmful effects at much lower doses than the levels that SC Johnson is disclosing.

The ingredients disclosure is also limited as it does not apply to all SC Johnson and Glade products.

However, SC Johnson has stated that the Glade products excluded in the disclosure are due to be phased out and that fragrance ingredients contained in products from other brands, such as Pledge, Windex, Shout and Scrubbing Bubbles, will be published soon.

(Global Cosmetic News - 25 April, 2018)

Daiso removes three hair dyes from shelves as 'precautionary measure' following reports of excess formaldehyde levels

Japanese retailer Daiso has removed three hair dyes from Singapore stores following reports that the products contain excess levels of the chemical formaldehyde.

The EverBilena Hair Touch A Black, B Dark Brown and C Brow hair dye pens in question were manufactured in Taiwan by Kyoto-based cosmetics firm Sunpalko for export to Japan, with the company announcing that it had voluntarily recalled the products in the country.

Having have been on sale since 2014, Sunpalko made the decision following the discovery that the products didn't meet national cosmetics standards, with company tests showing the items exceed legal maximum limits. However, the removal of the products was said to be a precautionary measure by retailer Daiso with the Health Services Authority (HSA) stating the levels were within permissible limits.

A HAS spokesperson said, "In Singapore, formaldehyde may be used as a preservative in cosmetic products to prevent the growth of microorganisms in the product, in concentrations not exceeding 0.2 per cent. "This limit, established under the Asean Cosmetic Directive, is in line with the limit found in the European Union regulations for cosmetic products."

The HSA has yet to receive any consumer complaints regarding adverse effects of using the products.

(Global Cosmetic News - 19 April, 2018)

L'oreal announces emission reduction targets in line with Paris Accord

L'Oréal has become one of the latest companies to have its emissions reduction targets approved by the Science Based Targets initiative (SBTi), a collaboration between CDP, the United Nations Global Compact, World Resources Institute (WRI) and the World Wide Fund for Nature (WWF).

The French beauty giant's commitment has taken the number of major companies to sign up to the initiative to more than 100, with a further 270 firms pledging to set science-based targets and preparing a formal submission to the SBTi. What's more, data from CDP suggests that some 850 companies declared their ambition to set a science-based target in the next two years in their 2017 climate disclosures.

"At L'Oréal we have been committed to fight climate change for many years, both within our company – we reduced the CO2 emissions of our production by 73 percent, in absolute terms, from 2005 to 2017 – and in our value chain," said Alexandra Palt, Chief Corporate Responsibility Officer, L'Oréal. "The validation by the Science Based Targets initiative of our new carbon reduction 2030 commitments brings us one step further in our long-term journey towards a low-carbon business model, addressing our global impacts and contributing to the 2° scenario confirmed by the Paris Agreement."
(Global Cosmetic News - 17 April, 2018)

Garnier BioFreeze top new products of 2017, Says IRI

IRI has announced last year's most successful consumer packaged goods launches in its 2017 New Product Pacesetters report, the CPG industry-recognized benchmark analysis of exceptional first-year new product sales success. Thousands of new brands hit retail shelves during 2017, with 49 percent of the top-ranking brands hailing from small manufacturers — defined as those earning less than $1 billion annually—and accounting for 26 percent of Pacesetter dollars. Overall, the top-selling 200 new brands captured cumulative year-one sales of more than $4.6 billion across IRI's multi-outlet geography.

For non-food brands,L'Oréal'sGarnier Whole Blends took the top spot at $121.8 million, whileBiofreeze ($78.1 million) andHerbal Essences Bio:Renew ($74.7 million) came in second and third place.

2017 New Product Pacesetters/Top 10 Non-Food Brands ($ Millions)

(Total Year-One Dollar Sales, Multi-Outlet)

1. GarnierWhole Blends $121.8
2. Biofreeze $78.1
3. Herbal EssencesBio:Renew $74.7
4. Red Copper $53.1
5. Tide Simply Plus Oxi $52.1
6. Select by Calphalon $44.4
7. Simply Straight $44.4
8. Copper Chef $42.7
9. Maui Moisture $40.2
10. all POWERCOREPacs $36.8

Source: IRI Market Advantage™

"Consumers are demanding products that are customized to their needs, and this type of targeted innovation continues to put small and niche companies on the New Product Pacesetter map," said Susan Viamari, vice president of thought leadership for IRI. "Just five years ago, an estimated nine out of every 10 Pacesetters launched were extensions of existing brand lines. In 2017, 40% of food and beverage and 25 percent of non-food Pacesetters were brands entirely new to the CPG marketplace. This clearly demonstrates consumers' willingness to try 'unknown' brands. Millennials, in particular, are more moved by experiences and solutions to their needs and less likely to purchase based solely on brand name."

"Smaller, more targeted product launches have become the new norm in CPG aisles, as manufacturers look to enhance impact with launches that align more closely with key consumer needs and wants," added Larry Levin, executive vice president of consumer and shopper marketing for IRI. "In a testament to the power of this shift, 20 percent of this year's top-selling launches earned less than $10 million during their first year on the shelves, continuing a trend we found in last year's analysis.

"It's no surprise that millennials are eager adopters of new CPG products. This group, after all, is continuously on the lookout for new, exciting and unique experiences. This quest for newness is pushing innovation into new territory.

While frugal, millennials will spend on things that matter to them. Of the 20 largest 2017 Pacesetter brands, 85% command a price premium compared to their respective category averages. PepsiCo's LIFEWTR, for instance, sells at a significant premium compared to other convenience/still waters. The brand hit strong in the market as a purified water, pH-balanced with electrolytes added for taste.

Millennials are also embracing wellness and self-care to ward off ailments. Campbell's Well Yes! soup easily meets this demand because it features clean, simple and nutritious ingredients to make healthy eating quick and easy.

IRI is currentlt holding its Growth Summit 2018 this week in Las Vegas. The Happi staff is on site, and will provide reports after the event.
(HAPPI - 17 April, 2018)

Evonik expands cosmetics portfolio with four new active ingredients

Evonik will globally present four new active ingredients for skin and hair care. As a common feature, they all share verifiable effectiveness proven by clinical studies and offer the highest degree of sustainability. Skinolance®, Evonik's first microbiotic skin care product, uses the cell-free lactobacillus extract to promote the natural balance of the skin flora by stimulating the growth of certain beneficial bacteria. This has a positive effect on the barrier

function of the skin helping to protect against roughness and dryness. These effects on the skin flora and skin appearance were verified in a clinical study.

"Humans depend on microorganisms, whether in food digestion or for skin protection. Similar to the benefits of probiotic yogurt in the digestive system, microbiotic cosmetic ingredients can have a positive impact on the local microflora of the skin," says Dr. Tammo Boinowitz, the head of Evonik's Personal Care Business Line. Evonik established the new "Care Biotics" technology platform as the basis for developing additional microbiotic products.

Hairflux® is an affordable ceramide blend for hair and scalp care, which can also be marketed in China (CFDA listing).

"For beautiful hair you need a healthy scalp, and Hairflux® acts on both at the same time," says Boinowitz. The olive-based ceramide has a soothing effect on irritated scalps, and makes damaged hair much more resistant due to the gentle manufacturing process that preserves the natural ingredients. The product is suitable for use in hair tonics, care products for the scalp as well as rinses and shampoos for damaged hair.

TEGO® Pep UP, a new tetrapeptide from Evonik, also has a CFDA listing. The active ingredient increases the collagen production of the skin and the fiber production in the extracellular matrix, which results in reduced wrinkle depth and more defined facial contours as visual effects. The product's lifting effect is of interest for anti-aging and other formulations.

Evonik will also present TEGO® enlight, a product developed for natural skin brightening. It contains a phytic acid salt obtained from rice bran and an extract of white mulberry fruit. Both components have brightening properties that complement each other favorably, and the product can be used for the treatment of age spots, and for general skin brightening.
(Evonik - 4 April, 2018)

Food safety body looking at global norms to finalise labelling regulations

The Food Safety and Standards Authority of India (FSSAI) is looking at global models adopted by various countries for labelling standards of packaged foods. This is being done before the Food Safety and Standards (Labelling and Display) Regulations, 2018, is finalised by the government.

In April, the regulator released the draft of the labelling regulations which has proposed front-of-the- pack nutritional information, besides red colour coded labels for foods which have high levels of fat, sugar and salt content. Some food companies have raised concerns about the red colour-coded labels.

Pawan Agarwal, CEO, FSSAI, said, "Food businesses have no issues with front-of-pack labelling. They have raised concerns regarding the thresholds and colour-coded labels for HFSS foods. We are looking at various global models such as the Australia-New Zealand model that has voluntary star rating or the Mexico and UK model. We are seeking comments and views from stakeholders on the same before we finalise the labelling regulations."

The labelling regulations are likely to be finalised in the next two-three months.

"We want food businesses to begin taking cognisance of the fact that whatever they produce is important from a public health perspective and not just from their bottomline perspective. It is being done in consumer interest. We have asked food companies for their gameplan to look at launching healthier food options in the market," he added.

FSSAI has also proposed that a company must make a declaration on the label in case its food product has 5 per cent or more of genetically engineered or genetically modified ingredients. "This has been proposed to increase consumer awareness. Imported GM food is coming to India whether its in the form of soya products and edible oils. In case of oils, GM is negligible." he added.

Transfat content

Asked about the launch of WHO's plan to remove transfat from the global food supply, Agarwal said, "We are also working on a goal to make India trans-fat free by 2022. The permitted levels of trans-fat content in edible oils has been set at 5 per cent. We are conducting various studies and getting opinions of experts on whether this needs to be further reduced."

Meanwhile, FSSAI launched a nation-wide campaign to promote safe and nutritious food at workplace called SNF@Workplace . This has been done to encourage companies to ensure nutritious and hygienic food is served and consumed by their workforce in offices. FSSAI has also launched the 'The Orange Book: Your Guide to Safe and Nutritious Food at the Workplace' to highlight the role to be played by key stakeholders such as the administration, canteen establishment and the employees in ensuring safe and nutritious food at the workplace.

(HinduBusinessline - 16 May, 2018)

INDIAN NEWS

CavinKare plans to tap equity market some time in 2020

Home-grown FMCG company CavinKare is planning to tap equity markets in the next couple of years. This was revealed by CK Ranganathan, Chairman and Managing Director of the privately held company that introduced path- breaking innovations such as shampoos being sold in sachets.

"The next phase of our growth is likely to come through inorganicc growth and to fund that we will come out with a public issue sometime in 2020," he said, while speaking to a select group of journalists at his office. He also hoped that the company, which is in seven different business segments ranging from personal care, beverages, milk products, snacks and saloons, will be valued in excess of $1 billion.

He attributed the company's success to its strong R&D and innovation mindset. "As much as 45 per cent of our products in the personal care space is uncontested," he said giving the example of Meera Powder, Meera Shampoo or the hair colour that can be washed in 10 minutes or the shampoo hair colour. Such positioning, he added, gave the company a competitive edge and enabled it to price the products profitably. It spent 2.5 per cent of its revenue (Rs. 32 crore) on R&D.

CavinKare closed the year 2017-18 with revenue of Rs. 1,600 crore against Rs. 1,300 crore in the previous fiscal. He said that profits were also growing but did not disclose the numbers as they are being audited. He expects the company to cross Rs. 2,000 crore turnover in 2018-19. The personal care business is its largest and accounts for over 60 per cent of the revenue.

Ranganathan said the company operated on a very simple product philosophy. "Launch a product only if it is a clear winner over competition or one that has a clear differentiation. We do not launch 'Me too' products at all, " he said. The company, he claimed, has scores of patents and as much as 25 per cent of them are in use in various products. It has a strong innovation pipeline and launches four or five products every year in each business.
(HinduBusinessline - 6 June, 2018)

U.S.-Based skin-care luxury brand Shankara ties up with Sri Sri Tattva to expand its footprint in India

U.S.-based luxury ayurveda skincare brand Shankara has tied up with Sri Sri Tattva to market its products in India, where it aims to expand its footprint.

Sri Sri Tattva, the consumer goods and wellness brand by spiritual leader Sri Sri Ravishankar, will give Shankara the platform to sell its products in the country.

The ayurveda brand plans to open 50 stores over the next three years in the country, primarily in metropolitan cities like Mumbai, Delhi, Kolkata and Bengaluru. Currently, Shankara sells its products on its website and the e-commerce sites Nykaa and Amazon. In addition, it intends to explore the shop-in-shops route.

"There is a huge appetite for luxury products. And from what I understand, the natural products section segment 40 percent of the personal care market," Astha Katpitia, country head of Shankara, told BloombergQuint. Katpatia pegs the $6.5 billion Indian personal care to grow at a compounded annual growth rate of 25 percent over the next seven to eight years.

Sri Sri Tattva aims to generate revenues of Rs 500 crore over the next two years from the franchise route as it aims to open 1,000 stores in the stipulated timeframe. It plans to tie up with other established retailers, such as the one it has with online grocer Bigbasket.
(BloombergQuint - 7June, 2018)

ITC acquires Kolkata based household sanitiser and floor cleaner brand "Nimyle"

FMCG major ITC Ltd has acquired Kolkata-based neem-based household sanitiser and floor-cleaning brand 'Nimyle' from unlisted Arpita Agro Products Ltd for an undisclosed sum. The acquisition marks ITC's entry into the Rs. 750-crore segment, which is currently dominated by Reckitt Benckiser's Lizol.

Nimyle is the second largest brand in the floor cleaning segment in West Bengal and Odisha while has recently entered the North and selling through e-commerce firms like Amazon and Big Basket. As per industry estimates, the small-sized deal will allow ITC the scope to build the category in East before taking it national.

ITC has been acquiring brands in the FMCG segment which largely have a regional presence at low prices as part of its strategy to expand presence. As part of this strategy, it had acquired the B Natural brand of packaged juices from Bengaluru-based Balan Natural Food and subsequently relaunched it with ambitions to overtake the top two firms, Dabur and PepsiCo. It last year acquired the once popular Charmis skin care brand from Colgate-Palmolive. Three years back, it made a mid-sized acquisition by purchasing Savlon and Shower to Shower brands from Johnson & Johnson for around Rs 200-250 crore.

ITC is targeting Rs 1 lakh crore sales from the FMCG business by 2030 and company executives have earlier indicated it may enter into every possible FMCG category to achieve this.

ITC recorded Rs. 34,223 crore sales revenue from the FMCG business, which includes cigarettes, in FY18. Of the total, approximately a third, or Rs. 11,329 crore, is non-cigarette FMCG revenue (categorised as 'Others').

According to records available with the Ministry of Corporate Affairs, the company registered a turnover of about Rs. 35 crore and a net profit of Rs. 25 lakh in 2014-15.

Incorporated in December 1992, the company has facilities in Maharashtra and West Bengal. Arpita Agro also sells other neem-based products under different brand names.

(Chemarc.com - 8 June, 2018)

FMCG: Consumer goods firms in a sweet spot

Packaged consumer goods firms saw sales growth improve in the March quarter. There was a base effect at work as the continuing effects of demonetisation had affected sales in the year-ago quarter. The roll-out of the goods and services tax (GST) had also affected business in FY18. The normalization of business saw firms report higher volume growth.

But it was not only the low base effect that helped. Rural consumption is reviving and a major engine for growth of consumer firms is revving up. A good monsoon forecast for the current fiscal has also raised hopes that this trend may continue well through FY19. If it does, it will fill a missing gap in the fast-moving consumer goods (FMCG) industry's growth in the past few years. The urban market continues to see demand sustain.

The sum of these factors was why Hindustan Unilever Ltd reported an 11% volume growth over a year ago, Godrej Consumer Products Ltd posted a 6% volume growth (19% in soaps) and Dabur India Ltd reported a 7.7% volume growth. Most of the sales growth was driven by volumes with price increases and product mix playing a limited role. The continuing benefits from the roll-out of GST, which confers benefits in the form of input tax credit on eligible inputs, has seen their Ebitda growth improve as well.

Firms are entering FY19 confident that the recovery is likely to continue. This is what investors, too, will be focusing upon, whether the past two quarters' recovery can sustain, even after discounting the low base effect. In the near term, rural consumption will continue to dominate attention, with eyes on how the monsoon actually pans out. ITC Ltd remains an exception, in that its FMCG business has seen growth recover but its cigarettes business continues to see a decline in volume growth due to the steep increase in cess.

One worry for firms is an increase in crude prices, which could see related input costs rise. Since demand is improving, rising costs can be passed on to consumers by hiking prices. Also, firms have lowered prices to share benefits of GST, which gives them headroom to increase prices, without affecting demand by much. The BSE FMCG Index is up by 10% since 20 March and up by 14% over a year ago. It remains a richly valued sector with a price-to-earnings multiple of 42 times its trailing 12-month earnings.

(Live Mint - 7 June, 2018)

GNFC's rich harvest from 'neem' revolution

After the successful rollout of its neem-based personal-care products, fertilisers major GNFC is aiming big in the FMCG segment. The State-run PSU, which uses neem derivatives for making personal-care products, including soaps, is eyeing Rs. 500-crore business from this segment in the next two years.

The steady rise in demand has prompted the management to chalk out production as well as network expansion plans.
"Currently, we have 21 products and plan to add new products. We shall expand our network from 22,000 shops to 1 lakh outlets by the end of this year. We're also ramping up our handwash and mosquito repellent production capacity ," Rajiv Kumar Gupta, Managing Director, GNFC Ltd, said.

"We have always believed in the potential for neem-based products. As a segment, it has the potential to reach Rs. 500 crore in the next two years, provided there is adequate infrastructure to produce and market it," he added. Currently, GNFC has less than Rs. 100 crore coming from the neem-based FMCG products.

Product range

As a forward integration, GNFC is looking to skill women, to make products such as hand- wash, shampoo, face-wash, hair oil, mosquito repellent, de-oiled cake, and pesticide among others.

As the PSU redefines itself, it is aggressively reaching out to the end consumers by opening retail outlets and making its products available online through e-commerce platforms such as Amazon and Flipkart. Last month, GNFC launched an exclusive retail outlet, Neem Parlour, in Surat.
(Hindu Businessline - 5 May, 2018)

Wipro consumer to push global brands in India

Wipro Consumer Care and Lighting, which crossed a billion dollar in revenue in FY 17-18, will step up India-specific distribution of its globally acquired personal care brands Enchanteur and Yardley to compete head-on with Hindustan Unilever and Procter & Gamble.

So far, the company has relied mainly on its Santoor soap and Safewash detergent brands in India.

"India now contributes 50% to our total revenues — which is the country's highest contribution in four years. We are pushing brands we acquired globally," company chief executive Vineet Agrawal said.

Santoor, which has crossed Rs 1,900 crore in sales, has a 9.4% share within soaps and is among the country's top three soap brands with HUL's Lifebuoy and Lux.

"We are looking at bigger play in lotions, home-care, fabric conditioner and dishwash liquid —these will be categories of investment. Under Enchanteur, we are looking at bigger outreach within deodorants, lotions, shower gels; in Santoor there will be newer categories," Agrawal said.

Wipro Consumer, with five India acquisitions and an equal number overseas over the past decade, has been more aggressive on acquisitions outside of India in the past five years. Its buy-outs include Unza Holdings of Singapore, UK's Yardley, Singapore-based skin-care company LD Waxson and China's Zhongshan among others. The company also bought a minority stake in domestic online consumer products firm Happily Unmarried Marketing for its Ustraa personal care products range.

"Fewer brands are available here, valuations are over the top and you have to look at cashflows for strategic investments. You have to be careful because you've invested so much money and can't come back and say it's not working. Acquisitions can always be questioned by the board. However, we are in talks with domestic players in the personal care space," Agrawal said.

The company is now building an ecommerce team to work separately on supply chain and bringing in an international product assortment. In India, ecommerce contributes less than 1% to its sales, in comparison to 17% in China.
(Economic Times - 3 May, 2018)

Patanjali, Adani Wilmar, Godrej Agrovet, Emami Agrotech vie for Ruchi Soya

Patanjali, Adani Wilmar, Emami Agrotech and Godrej Agrovet have put in bids to acquire debt-ridden edible oil firm Ruchi Soya. Patanjali Ayurveda, which already has a tie-up with Ruchi Soya for edible oil refining and packaging, as well as Godrej Agrovet and Emami Agrotech confirmed that they have put in bids for Ruchi Soya but did not disclose the value. Indore-based Ruchi Soya, which is facing insolvency proceedings, has a debt of about Rs 10,000 crore. The company has many manufacturing plants and its leading brands include Nutrela, Mahakosh, Sunrich, Ruchi Star and Ruchi Gold.

Sources said that Adani Wilmar, which sells cooking oil under Fortune brand, too has put in a bid. "We bid for Ruchi Soya on Wednesday. While Emami Agro's own expansion plans are already underway, Ruchi Soya's assets are likely to add an impetus to our growth trajectory," a company spokesperson said. A Patanjali spokesperson said the company has also bid for Ruchi Soya as it aims to be a major player in edible oil segment, particularly soybean oil. It also wants to work for farmers benefit. In December 2017, Ruchi Soya Industries Ltd entered into the Corporate Insolvency Resolution Process (CIRP) and Shailendra Ajmera was appointed to act as Interim esolution Professional (IRP).

The appointment was made by the National Company Law Tribunal (NCLT) on the application of the creditors Standard Chartered Bank and DBS Bank Ltd, under the Insolvency and Bankruptcy Code Emami Agrotech is the edible oil and bio-diesel arm of Emami Group of Companies, the Rs 10,000 crore, business conglomerate based in Kolkata. It has diverse business interests in segments such as production and distribution of edible oil, specialty fats and bio-diesel. Godrej Agrovet, part of Godrej group, is into animal feed, crop protection, oil palm, dairy, poultry and processed foods.
(Millennium Post - 3 May, 2018)

Online beauty products retailer Nykaa enters fragrance segment

Online beauty products retailer Nykaa has expanded its private label with the addition of a line of fragrances under the brand name of Moi by Nykaa.

The online platform currently has two fragrances, Raison d'etre and Joie de vivre, and plans to add more soon. The fragrance market in India, estimated at Rs 20 billion, is projected to grow to Rs 30 billion over the next five years.

Nykaa is optimistic about the potential of its niche fragrance brands to compete with established global players in metros. Priced at Rs 1800 each, the perfumes are costlier than retail brands such as The Body Shop, but less expensive than brands like Davidoff or Calvin Klein.

"While deciding the price, we keep in mind quality and margins. So we will not compromise on business sustainability. I also believe that the discerning consumer will pay more if quality and service are assured. And this is something we have kept in mind when we launched the Nykaa nail paints. Other retailers (available on the website/app) were selling nail paints at under Rs 100. We priced ours at Rs 150 because the price made business sense," said Falguni Nayar, Founder and CEO, Nykaa.

It currently retails more than 850 beauty brands on its website/app, and over the past couple years, it has been expanding its private label by the same name.

Nayar said she and the team took cues from the shopping trends seen on the portal. Having launched Nykaa with nail paints, the company has expanded its portfolio to include bath and body products (shower gels and lotions), make-up and wellness products. It has also launched a separate category of products under Nykaa Naturals, which includes essential oils.

The fragrances have been developed in association with Jordi Fernandez, an expert in a variety of fragrance genres. His perfumes are influenced by his Spanish heritage and love for West Asia. "By visiting places, meeting people, and getting involved in the local culture, I discover a wealth of perfume ideas," Fernandez said.
(Business Standard - 19 April, 2018)

Dabur completes acquisition of D&A Cosmetics Proprietary products for $4.14m

Dabur has completed acquisitions of D&A Cosmetics Proprietary and Atlanta Body & Health Products Proprietary for Rs. 50 M ($4.14m).

Based in India, Dabur is a consumer goods company engaged in the production and distribution of Ayurveda and natural healthcare products.

In 2017, Dabur acquired the CTL group's personal, haircare and creams businesses for Rs100m ($1.5m). This latest acquisition will enable Dabur to fortify its international business accounts and overseas portfolio. The acquired firms will operate as subsidiaries of Dabur India.
(The Times of India - 6 April, 2018)

Sanjiv Mehta to take charge as Hindustan Unilever Chairman, MD...

Consumer goods major Hindustan Unilever Limited (HUL) announced that its Chief Executive Officer (CEO) and Managing Director (MD), Sanjiv Mehta, will take over as the Chairman and MD of the company.

Post the Board meeting HUL announced that Sanjiv will succeed Harish Manwani, who announced his retirement as Non-Executive Chairman of the company post the forthcoming annual general meeting.

Manwani joined HUL as a management trainee in 1976 and joined the HUL Board of Directors in 1995 as a Director responsible for the personal products business. In 2005, he was appointed to the Unilever Executive as President-Asia, Africa, Middle East, and later, Central and Eastern Europe. He then served as the CEO of Unilever from 2011 to 2014.

On a related note, the company in the Board meeting also discussed the Securities and Exchange Board of India;s (SEBI) recent decision to accept the recommendation of the Kotak Committee to separate the positions of the Chairman and MD from April 2020, for the top 500 companies by market capitalisation. In this regard, HUL confirmed compliance with the new regulations from the aforementioned date.
(ANI - 13 April, 2018)

Dow India inaugrates state-of-the-art technology centre in Mumbai

Dow Chemical International Pvt Ltd (Dow India) has inaugurated a state-of-the-art application development hub, 'Dow India Technology Centre' (DITC) in Navi Mumbai. The centre will enable collaboration and innovation with customers to create sustainable, market-centric products and solutions.

Over 70 highly skilled, research and development specialists with capabilities in analytical science, material science, process optimization, and IP search analysis will support business units in India and extend application support to markets in the region.

The centre was inaugurated by United States Consul General to Mumbai, Edgar D Kagan to the executives and employees of the company, today. Commenting on the inauguration, he said, With over 5000 customers, DITC will champion application-development at various scales. This centre will increase efficiency and improve speed in development and testing of products and solutions, in India, for India and the region. DITC will be a hotspot for cross-business initiatives and future-ready technologies, which will enable Dow India to create a future built on sustainable and relevant solutions.

Spread over 70,000 square feet, the centre has dedicated labs for six businesses of the company – packaging & speciality plastics, polyurethane, consumer solutions, coating materials, industrial solutions, construction chemicals along with capabilities in analytical science and core R&D. The company contributes products and solutions across the spectrum and launch of DITC will strengthen its portfolio of over 2000 products in the country.

DITC has been designed to follow best-in-class safety standards. It is armed with advanced monitoring equipment, chemical handling and management systems, exposure control kits and is designed to protect any adverse environmental impact.

Over the last two decades, Dow India has been credited for revolutionizing the domestic consumer market with numerous inventions – from simple product innovations such as 'Hawaii chappals', shiny laptop screens, effective API's for medicine, complex process innovations in packaging materials that enable "recycling" to solutions that enable saving water in the home laundry segment.

"I congratulate Dow India on inauguration of their technology centre in Mumbai. The US-India bilateral trade relationship is already USD 125 billion strong, and new projects and centres like this one only serve to strengthen the economies of both of our countries," said Kagan.

"Product life-cycles have dramatically changed and accelerated over the past decade. This trend creates the imperative for us to continually innovate in, understand and address these emerging market needs. DITC will be a unique step to accelerate new product development, develop scientific talent and the collaborative approach that we take with our current and future customers will give us and our customers a competitive edge in the marketplace," said Dr A N Sreeram, chief technology officer, The Dow Chemical Company.

"The launch of the DITC will mark the second phase of growth for Dow India and is a clear demonstration of our commitment to the Indian market, our customers, partners and distributors. The combined potential of sustained inflow of feedstock coming in from Sadara (our Joint Venture with Saudi Aramco), and the application development capabilities of DITC, will enable Dow India to adequately satiate demands of a rapidly growing Indian economy," added Sudhir Shenoy, CEO, Dow India.
(Worldofchemicals.com - 11 April, 2018)

SUSTAINABILITY

Croda awarded ICIS Surfactants award for sustainability

Croda International Plc is celebrating being awarded the ICIS Surfactants Award for Sustainability for their new pioneering bio-ethylene oxide plant.
Croda, who make ingredients and technologies that are relied on by industries and consumers everywhere, were nominated for their bio-ethylene oxide plant at their Atlas Point manufacturing site in North America. The plant enables the manufacture of 100% renewable ethoxylates and is the first of its kind within the United States. It will produce a new range of ECO surfactants that are 100% renewable, 100% bio-based, have lower carbon footprint than petrochemically derived ingredients and a performance identical to that of petrochemical alternatives.

The awards, which took place at the ICIS World Surfactants Conference, recognise excellence and innovation within the surfactants industry. The sustainability award focuses on contributions to the field of sustainability either through a product, process or supply chain. Surfactants, more specifically ethoxylates, are used in a range of industries, from Personal Care and Home Care to Lubricants and Crop Care with all industries facing increasing consumer demand for products with higher bio-based renewable content while maintaining high performance.

This new ECO plant replaces the use of petrochemical based ethylene oxide with bio-ethanol derived from corn.

Terry Thistlethwaite, Vice President Sustainability, Croda said: "This award showcases another example of how we are committed to enabling our customers to meet the increasing demands of consumers for more environmentally sustainable and bio-based products. Sustainability is a key part of our Business and this new plant is a demonstration of our commitment to investing in innovative and sustainable solutions."
(Croda.com - 11 May, 2018)

Henkel Partners with How2Recycle ® Label Program in the United States

Henkel has partnered with the How2Recycle ® label program to encourage consumer recycling. As part of this partnership, a selection of Henkel's Laundry & Home Care products including Soft Scrub ® and Purex Crystals ® will feature the How2Recycle label on their packaging at major retailers across the United States, including Walmart. The company's Adhesive Technologies business unit is also featuring this label on paperboard cartons used for its Technomelt brand of industrial products.

Participating in the How2Recycle label program represents a significant milestone in Henkel's ongoing commitment to sustainability. How2Recycle is a US-based standardized labeling system that co municates recycling instructions to the public. The system is a project of the Sustainable Packaging Coalition®, a membership-based group that brings together business, educational institutions, and government agencies to collectively broaden the understanding of packaging sustainability and develop meaningful improvements for packaging solutions.

Variation in recycling programs, unclear labeling, and inaccurate recyclability claims make proper recycling a challenge. The How2Recycle label was created to provide consistent and transparent on-package recycling information to the public.

"By educating consumers on recyclability, we can help close the loop on the lifecycle of our product packaging. Complex packaging types can make it unclear which items should go in the recycling bin. This labeling system provides proper instruction on package disposal to help divert recyclable items from the waste stream," says Jessica Fedrigo, Packaging Engineer at Henkel.

As part of Henkel's commitment to sustainability, the company supports its retail partners in developing innovative, more sustainable solutions. Together with its partners and suppliers, Henkel aims to advance sustainability along the entire value chain.

"Sustainability is deeply embedded in Henkel's culture and one of our corporate values. Henkel is pleased to partner with How2Recycle in support of our sustainability objectives, as well as those of our key customers like Walmart," says Robert Anson, Director of Business Development at Henkel's Laundry & Home Care business unit. "Walmart has demonstrated measurable influence in the sustainable packaging space by encouraging brands that sell at its stores to join How2Recycle. The How2Recycle label on our products will increase awareness and facilitate ease of recycling for millions of consumers.

A leader in sustainability

Henkel's commitment to leadership in sustainability is anchored firmly in the company's corporate values. As a leader in sustainability, Henkel aims to pioneer new solutions while developing the company's business responsibility and increasing economic success. The company strives to create more value – for its customers and consumers, for the communities it operates in and for the company, while, at the same time, reducing its environmental footprint. The goal of Henkel's long-term sustainability strategy is to achieve more with less. Henkel's 20-year goal for 2030, called Factor 3, is to triple the value created for the footprint made by Henkel operations, products and services.

Henkel holds leading positions in various international sustainability ratings and indices. For example, the company is listed in the Dow Jones Sustainability indices World and Europe as "industry group leader" in the Household Products category and is recognized by Sustainalytics, RobecoSAM's Sustainability Yearbook, and the FTSE4Good ethical index
(Businesswire.com - 27 April, 2018)

P&G Annouces 2030 Sustainability Goals

The Procter & Gamble Company today announced it has achieved many of its 2020 environmental sustainability goals, has plans in place to meet the rest and has established new, broad-reaching goals for 2030.

The new goals, titled "Ambition 2030," aim to enable and inspire positive impact on the environment and society while creating value for the company and consumers, said the CPG giant.

"We believe P&G can be a force for good and a force for growth, and we are taking a more deliberate approach to delighting consumers while enabling responsible consumption," said David Taylor, P&G's chairman, president and CEO. "Consumers expect the brands they trust to deliver superior performance and to also help solve some of the most complex challenges facing our world. Our global reach, our understanding of the five billion consumers we serve, and our innovation capabilities give us a unique ability to make a positive difference."

P&G's "Ambition 2030" goals include:

Brands: P&G's 20 leadership brands including Ariel, Dawn, Fairy, Febreze, Head & Shoulders, Pantene, Pampers, and Tide will enable and inspire responsible consumption through packaging that is 100% recyclable or reusable, launching more sustainable innovations, and building trust through transparency and sharing our safety science.

Supply Chain: P&G manufacturing sites will cut greenhouse gas emissions in half, and will purchase enough renewable electricity to power 100% of our plants. The company said it will also source at least 5 billion liters of water from circular sources.

Society: P&G will continue to create transformative partnerships that enable people, the planet and our business to thrive, including those that stem the flow of plastic into the world's ocean, protect and enhance forests, expand recycling solutions for absorbent hygiene products, and protect water in priority basins around the world.

Employees: P&G will engage, equip and reward employees for building sustainability thinking and practices into their everyday work. We will reward progress and integrate recognition into performance assessments.

Building on its legacy of environmental leadership, P&G has already achieved many of its sustainability goals for 2020 in its focus areas of climate (reduced absolute greenhouse gas emissions by 16% since 2010), water (reduced water use in manufacturing facilities by 27% since 2010), and waste (achieved zero manufacturing waste to landfill for more than 80% of manufacturing sites).

P&G said the impact of its progress can be seen across brands and geographies, including products like Tide purclean that include bio-based ingredients and Head & Shoulders that use beach plastics in packaging; manufacturing changes that power plants with wind electricity and steam from biomass; and research innovations that will transform the recyclability of tons of plastic each year benefitting entire industries, well beyond the reach of P&G.

"Building on our progress to date, our 2030 goals seek to address two of the world's most pressing environmental challenges: finite resources and growing consumption," said Virginie Helias, P&G vice president of global sustainability. "We know P&G alone does not have all the answers. It will take partnerships and collaboration to make meaningful progress and our brands will develop innovations to take responsible consumption to the next level." (HAPPI - 16 April, 2018)

Henkel's 2030 goals and sustainability communications strategy

In 1908, Wilhelm II, German emperor and grandson of Queen Victoria, exacerbated Anglo-German relations by professing to Britain's Daily Telegraph that, "You English are mad, mad, mad as March hares." As the Kaiser's diplomatic stature diminished, a faction of men dressed in white paraded the streets of Berlin, brandishing white umbrellas and slogans that spoke of a cleaner, trouble-free revolution.
Despite appearances of dissent, the men in white were not part of any protest mob, they showed no affiliation to any political cause or to nationalist or extremist groups. The men in white worked for Henkel.

After the development of its water glass and soda detergent, Henkel swiftly became one of Germany's most established companies. Creating the world's first 'self-acting' detergent in 1907, its flagship brand would come to be known as a household favourite, liberating domestic cleaning from the rigmarole of old. Persil, derived from its two main components, sodium perborate and sodium silicate, did the 'work of the washboard,' leaving material gleaming white, and giving Henkel the carte blanche to corner the market.

Opening the doors to uncharted advertising territory, Persil's promotion went above and beyond. The men in white, served as the vanguard of Henkel's advertising strategy. In 1922, German designer, Kurt Heiligenstaedt's 'White Lady,' a matron-like phantom that symbolised the cleaning power of Persil, debuted. Five years later, Henkel took to the skies, commissioning aerial skywriting that lit up the continent. In 1956, Henkel would be the first commercial advert on German television, enshrining the beloved slogan, 'With Persil, you know what you get.'

Beyond Persil, the company's founder, Fritz Henkel, was keen to develop safer, smarter and more sustainable products. Since its inception in 1876, Henkel has been family run. In 1905, Hugo Henkel, the youngest of the Henkel sons, joined the company as a chemist, leading chemical products and technology, and the company's sustainable drive. Prepared for the German Detergents Act of 1961, Henkel was quick to develop advanced technologies, creating low-foam surfactants in 1958 and, by 1964, permitting only biodegradable detergents.

In recent years, its continued its pledge to cultivate sustainable products throughout its business, which has led to a more integrated sustainability strategy. Publishing an annual environmental report since 1992, Henkel affirmed its commitment to the United Nations Global Compact in 2003. "Sustainability is one of our five corporate values, so it's very deeply embedded in the company," says Carole Scott, head of corporate communications at Henkel.

Today, Henkel's goal is to achieve more with less. Its long term sustainability plan envisions all Henkel products being three times as efficient by the year 2030 – a 20-year goal set out in 2010. Yet one of the core issues with regards to sustainability for Henkel, hinges on the fact that 90% of the environmental footprint of its products is generated during their use. With more than 40% of its sales generated in emerging markets, achieving measurable results means striking a fine balance between communication and innovation.

"For employees directly, we have a sustainability ambassador scheme, set up in 2012. We're aiming to have all 50,000 of our employees complete that training by this year. The idea of the programme is to through a training module which is designed to raise awareness of Henkel's sustainability strategy. Therefore, even if you're working in finance or customer care – away from production – you'll understand what that sustainability strategy entails," says Scott.

With as much as 80% of Henkel's workforce based outside of Germany, its global efforts to reach its sustainability goals lean heavily on collaboration. Recent awareness into palm oil extraction and its negative environmental impact, for example, has led to a widespread move to ban the production of palm-related plantations. Aware of the myriad consequences – the central claim being deforestation – Henkel's response involves working closely with partners and palm oil farmers to achieve traceable and sustainable palm oil extraction.

Yet maintaining a climate-positive outlook is something that requires an ongoing initiative to raise awareness of the changing environmental landscape and implement its policies across Henkel's vast product offering. "We look at our products' entire lifecycle – from the purchasing of raw materials, through production, logistics and all the way to consumption and packaging disposal. We want to persuade consumers to use our products in more sustainable ways through targeted communication. Our retail partners also have an important role to play in communication with consumers," says Kathrin Menges, executive vice president of human resources and head of the sustainability council at Henkel.

From smart packaging solutions to maximising the value chain, Henkel's sustainability strategy is not only woven into the fabric of its brand, it's dictating its future. In 2016, Henkel's Adhesive Technologies business unit partnered with US-based innovative recycling company, TerraCycle. Producing previously unexplored recycling solutions, the partnership allows Henkel's environmentally unfriendly packaging – notably, its Loctite anaerobic adhesive bottles – to be adequately repurposed, avoiding landfill or incineration.

With its eye firmly on communications, creating an efficient network of sustainable production continues to be top of the business agenda for Henkel. Rewarding suppliers and partners is another key tool used by the company in its journey to orchestrate sustainable practice. Its endeavours blossoming, the company has matured since the days of white umbrellas and skywriting. Its products continue to tick boxes and its sustainability strategy is doing its best to ensure those boxes are environmentally friendly.
(http://www.transformmagazine.net – 8 June, 2018)

Dow reports progress in sustainability goals

The Dow Chemical Co. has outlined its progress toward sustainability goals that move away from "take-make-dispose" to a regenerative economic model, according a 2017 Sustainability Report released last week.

Dow's 2025 Sustainability Goals include working toward integrating public policy solutions, delivering sustainable chemistry innovations, valuing nature, advancing a circular economy, using safe materials for a sustainable planet, engaging for impact in communities with employees and customers, and efficiently maintaining operations.

"At Dow, we see one role of business as a catalyst for change — as a driver of innovations that improve life and the environment, while creating sustainable economic growth," said Jim Fitterling, Dow's chief executive officer-elect. "With our ambitious 2025 Sustainability Goals, we have committed to make a difference and to help redefine the role of business in society. We will continue to drive science- and technology-based solutions for key global challenges such as marine debris, carbon emissions and water availability, collaborating alongside our customers, governments, NGOs and other important stakeholders."

The company defines its goal of working toward a circular economy as innovating product that enables higher durability, as well as recycling and reusing materials.

Through collaboration on a pilot project in Europe in 2017, a market was developed for recycled polyols from end-of-life mattresses. Dow Packaging and Specialty Plastics also delivered the first certified renewable low-density polyethylene to customers. Quantitative studies were launched to reduce plastic waste in Japan and helped the Indonesian government turn plastic waste into sustainable roads.

In its goal of generating cost savings in decisions that "value nature," workshops were held to educate employees on how to incorporate nature into decision making. Dow did not qualify the value of nature in the report, but exceeded its 2017 target of valuing nature by generating $120 million in cost savings or new cash flow from projects that are "good for business and better for ecosystems."

Product safety was promoted by Dow in initiating the Product Stewardship Academy with outreach in Kenya, Nigeria and Ghana. Dow also received a LAUNCH Chemistry award for development of predictive safety assessment tools.

Dow eliminated 30 priority one health risks in 2017 and targeted improving employee health. In its work toward removing workers from higher-hazard activities, Dow is using robotics to eliminate need for confined space entry, and drones to eliminate certain elevated work and devices on aerial lifts. In 2017, Dow invested $39.74 million in corporate and foundation contributions, and more than 3,000 Dow employees acted as STEM ambassadors, supporting more than 2,500 teachers and impacting more than 380,000 students.

Freshwater intake intensity was reduced by Dow at its water-stressed sites by 5 percent from the 2015 baseline. In 2017, innovation teams were awarded a U.S. Presidential Green Chemistry Award, six R&D 100 awards for sustainability related products and an EPA Safer Choice Partner of the Year award.

In goals of developing "societal blueprints" to integrate public policy solutions, the Watershed Management blueprint was launched, which documents case studies of sustainable water management.

"I am excited about our progress against our 2025 Sustainability Goals and how these goals are challenging us to rethink business models and product designs to help achieve shared value for Dow, our environment and society," said Neil Hawkins, chief sustainability officer and corporate vice president for Environment, Health & Safety, Dow. "These goals are delivering long-term value to Dow and sustainable solutions for our customers and society." (www.ourmidland.com/news - 11 June, 2018)

BASF drives sustainable palm with major portfolio switch

BASF shifts its Personal Care portfolio and will offer palm-based specialties for the cosmetics industry exclusively as certified sustainable. The move was announced at its 3 rd Palm Dialog event during the in- cosmetics global exhibition.

"This is an important milestone for the cosmetics industry's progress towards sustainable palm – and some of our customers have already made the step," said Xavier Susterac, Senior Vice President BASF Personal Care Europe. The decision to offer palm-based specialties only as certified in line with the Roundtable on Sustainable Palm Oil (RSPO) 'Mass Balance' standard is the latest move in BASF's initiative 'Time for Change'. The company has made a commitment to switch about 330 palm-based products to 'Mass Balance' standard in the course of 2018 globally. 'Mass Balance' (MB) is one of the RSPO supply chain models that foster the physical flow of certified raw materials within the oleo-derivatives supply chain. "By enhancing our IT processes, we are making it easier for our customers to change to MB ingredients," said Isabella Tonaco, who is responsible for Global Sustainability Palm Products at BASF.

BASF steps up palm traceability

BASF produces palm-based ingredients for cosmetic products, detergents and cleaning agents as well as foodstuffs. The majority of oil palm products used by BASF are based on palm kernel oil and its derivatives; to a lesser extent on palm oil. Palm cultivation is linked to deforestation, loss of biodiversity and social conflicts in the producing countries – mainly Indonesia and Malaysia. BASF has therefore committed itself to source only RSPO-certified sustainable palm kernel oil by 2020. However, currently less than 20 percent of the global supply of palm-based oils is available as certified sustainable. In the difficult market environment of 2017, BASF purchased 153,000 metric tons of RSPO-certified palm kernel oil and made significant progress regarding traceability.

In 2017, the company was able to trace almost 80 percent of its overall oil palm exposure of more than half a million metric tons. The certified sustainable oil is 100 percent traceable and originates from 204 oil mills in Indonesia and Malaysia (2016: 128), according to the second BASF Palm Progress Report.

BASF Palm Dialog discusses industry's impact

On April 18, BASF hosted its third Palm Dialog on the industry's impact and progress towards sustainable palm during the in-cosmetics exhibition. This provided an opportunity for personal care ingredient suppliers and cosmetic manufacturers to discuss the latest trends and developments in the oleo-chemical industry and engage in dialog with experts. The BASF Palm Dialog is a crucial element in the company's commitment to fostering collaboration among stakeholders along the value chain.
(BASF.com - 18 April, 2018)

REGULATORY UPDATES

European Parliament supports global ban on animal-tested cosmetics

The European Parliament has voted to support a push for a global ban on cosmetic testing on animals by 2023. The resolution, backed by 620 MEPs, will direct members of the European Commission and European Council to call on the United Nations to end the practice around the world. The vote follows the five-year anniversary of a ban on the sale of animal-tested cosmetic products and ingredients in the EU, which inspired similar legislation in India, South Korea and New Zealand. Currently 80 per cent of the world's countries have no law banning the practice. Global petition In 2017 Cruelty Free International and The Body Shop launched a joint campaign to lead the call for an international ban. A petition has since amassed 5.7 million signatures, with Ricky Gervais and Joanna Lumley among the people lending their support.

"The EU ban has demonstrated that it is possible to have a healthy, thriving cosmetics market without the need for animal testing," said Jessie MacNeil-Brown, head of global campaigns for The Body Shop. "Today's positive vote will take us a big step closer to an international agreement." 'Cruel and unnecessary' Michelle Thew, chief executive of Cruelty Free International, said that more than half a million animals are still used every year "in cruel and unnecessary cosmetics testing worldwide". Ms Thew added: "The leadership that MEPs have shown by adopting this resolution deserves much credit. Now it's time to work together to deliver a global end to cosmetics animal testing and eliminate animal suffering around the world."
(inews.co.uk - 3 May, 2018)

Report : Plastics can improve quality, volume of biomass end product

Adding recovered plastics to biomass in a gasification process can increase the quality and volume of the end product, according to an industry-funded study.

Gasification is a waste-to-energy process by which materials such as municipal solid waste are converted to synthetic gas, methanol or other fuel products. According tothe study, titled "The Effects of Non-recycled Plastic (NRP) on Gasification: A Quantitative Assessment," non-recycled plastics are a valuable feedstock for gasification.

"This study demonstrates that because carbon and hydrogen rich plastics have high energy content, there is tremendous potential to use technologies like gasification to convert these materials into fuels, chemicals, and other products," researcher Marco Castaldi stated in apress release.

The research was funded by the American Chemistry Council, Plastics Industry Association and Canadian Plastics Industry Association. It was completed by the Earth Engineering Center at The City College of New York. The trials took place at a gasification facility in Edmonton.

The researchers focused on often-landfilled plastics. "Since there are practical limits on mechanical recycling, it is important to understand the environmental impacts of alternatives to landfill, such as gasification to methanol," the report states.

For the trials, researchers used feedstock blends that included a range of plastic content, from 0 percent to 50 percent, mixed in with wood chips. The plastics came from residue from Edmonton's materials recovery facility (MRF). They examined how increasing the percentage of plastics in the gasification feedstock mix would impact end-product yield, thermal efficiency of the process, and the volume of unuseable byproduct. The study found positive results from adding plastics, with the results improving based on higher plastics content. With a 50 percent plastics mix, 80 percent more synthetic gas was produced than with a mix that didn't include plastic, and only marginally more energy was required to process the mix. A mix with 50 percent plastics also produced up to 42 percent more methanol, the researchers found.

"The road to producing greater quantities of liquid fuels and chemicals from gasification is still evolving," the researchers concluded. "Companies will need to optimize feed handling and process efficiencies. However, this study indicates that [non-recycled plastic] is a material stream that should be diverted from landfill because it offers significant benefits to the overall performance and product yield of gasification technologies."
(Plastic Recycling update - 2 May, 2018)

Maharashtra to ban plastic microbeads by month end; cosmetic body supports ban

After imposing a ban on a wide range of plastics, including bags and thermocol, Maharashtra could become the first state to prohibit the use of microplastics or plastic microbeads, mostly used in clothing and cosmetics, said the state environment department.

Government officials said a notification will be issued by the end of the month. The ban is aimed at protecting marine life threatened by microplastics. These small plastic particles — used in cosmetics such as face wash, scrubs, soaps, body wash, detergents, ageing creams, nail polish, lip gloss and toothpastes — are not filtered out through wastewater treatment systems, and end up in the sea, where they are consumed by fish and other marine life who can mistake it for fish roe. The microbeads can travel up the food chain to larger fish and through them into our food.

"Microbeads are substitutes for natural abrasives in mainly cosmetics such as scrubs and even in washing powders and floor cleaners, which are even more harmful than plastic bags for the environment. Studies have confirmed they are a major source of cancer. These microplastics or toxic, coated beads are further consumed by fish and other marine life, which are ultimately consumed by humans. We hope Maharashtra will be the first state to carry out this ban on the lines of many developed countries," said Satish Gavai, additional chief secretary, state environment department.

The state pollution control board will be roped in to sensitise corporates and medium- and small-sized industries involved in production of plastic microbeads to execute the ban.

The US banned the use of microbeads in personal care products in 2015. In January, the United Kingdom imposed a ban. Other countries like Italy and New Zealand are expected to impose the ban from May this year, and Australia and Canada have had parliamentary discussions on a proposed ban.

Cosmetics body supports Maharashtra government's plan to ban microbeads

The All-India Cosmetic Manufacturers Association (AICMA) voiced their support for proposed ban on microbeads. It has 700 medium and small-scale industries as part of its forum, of which 80% are based out of Maharashtra.

"All cosmetic industries will have to abide by the ban, as it may extended to the whole country. This movement is happening on a global scale and manufacturers need to realise that there are so many natural beads that can be used instead. We will support the state government in implementing this," said Kajal Anand, executive member and former president of AICMA and committee member of Bureau of Indian Standards (BIS). "The Centre is also mulling over such a ban, which is expected to be executed soon." She added that it is possible to do without plastic beads. "Beads from almonds, walnuts and jojoba are a ready substitute for microbeads," said Anand.

Experts said banning microbeads could make Maharashtra a model state for environment protection, even as the cosmetics body supported the proposal. Microbeads are small plastic particles, mainly found in cosmetics. The state environment department intends to ban the use of such microplastics.

"Microbeads are another unnecessary and criminal use of plastic, which can be easily done away with. Currently, people are not even aware that the material is present in products they use. It is heartening to note that the Maharashtra government is considering the ban," said Almitra Patel, Indian environmental policy advocate and member of the committee that drafted the Municipal Solid Waste Management Rules, 2000.

"Similar to warnings related to tobacco use, cosmetic products need to follow suit, informing us they are dangerous. As a citizen, it is my constitutional duty to protect the environment," said Patel. (Hindustantimes.com - 20 April, 2018)

Danish study finds suspected endocrine disrupting chemicals in body lotions

A study by the Danish Consumer Council has found suspected endocrine disrupting chemicals (EDCs) and allergens in body lotions. The council checked ingredients listed on 54 body lotions and matched them against lists of problematic substances, including the EU;s endocrine disruptor priority list and NGO ChemSec'sSubstitute It Now (SIN) list.

Researchers graded the products between A and C. They gave the lowest grade (C) to eight lotions that contained suspected EDCs. Of these, three also contained allergens.

The problematic substances identified were:

- parabens – on the EU's endocrine disruptor priority list;
- butylated hydroxytoluene (BHT) – on the ChemSec SIN list for endocrine disrupting properties;
- cyclopentasiloxane – evaluated by the Danish Technical University as a suspected EDC;
- hydroxyisohexyl 3-cyclohexene carboxaldehyde – allergenic substance;
- dmdm hydantoin – allergenic substance; and
- diazolidinyl urea – allergenic substance

The report says that, although these body lotions may not be harmful on their own, they contribute to the "cocktail effect" of overall exposure to unwanted chemicals.

Prolonged exposure

The report also warns that, as chemicals are absorbed through the skin, products which remain on the skin allow more exposure to chemicals than products that are rinsed off.

Claus Jørgensen, senior project manager at the Danish Consumer Council, told Chemical Watch: "Lotion stays on the body after application, and therefore unwanted chemicals stay on the body for longer periods of time, and there is a risk that the unwanted chemicals can enter the body contributing to the daily exposure of unwanted chemicals"

Researchers rated 24 body lotions with an A grade because they were free of problematic chemicals. A further 22 products were graded B because they contained perfume and some allergenic extracts, or substances that may be harmful to the environment.

Mr Jørgensen said the council has evaluated more than 800 body lotions on its consumer app Kemiluppen. This allows consumers to scan a product barcode and immediately find out whether or not the product contains problematic substances.

The council also provides theTjek Kemien consumer app, which identifies substances of very high concern (SVHCs) in articles. This will be replaced by the EU-wideAskREACH app next year. (Chemicalwatch.com - 19 April, 2018)

New Jersey court orders Johnson & Johnson et al to pay US $ 117 million in asbestos talc case

A New Jersey state court has ordered Johnson & Johnson and Imerys Talc America to pay out US$117 million in damages to a plaintiff who claims that exposure to asbestos in talc products caused him to develop cancer, according to a report published by Reuters.

The award is divided into US$80 million in punitive damages and US$37 million in compensatory damages. The punitive damages have been split between the two defendants this: Johnson & Johnson is to pay US$55 million and Imerys US$25 million.

The jury trial was the second US case to focus on the asbestos content of talc marketed by J&J. It was also the first time that a court has upheld allegations that J&J's talc products contain asbestos. The US pharma giant is also fighting multiple cases that claim that talc can cause ovarian cancer.

Johnson & Johnson has launched an appeal, stating that it would continue to defend the safety of its products and claiming that it had been barred from presenting important evidence in court. Imerys Talc America has also issued a statement revealing its intention to appeal.
(Global Cosmetic News - 16 April, 2018)

Wipe makers must stay on top of changing regulations

The Federal Fungicide, Insecticide and Rodenticide Act (FIFRA) requires all pesticides, which includes disinfectant wipe formulations, sold or distributed in the U.S. to be registered by the U.S. Environmental Protection Agency (EPA). Due to strict registration and ongoing stewardship requirements, obtaining and maintaining EPA registrations can be complex, resource intensive, and expensive. Product development and registration timelines typically run to two years and longer with costs exceeding $500,000 per registration.

Regulatory trends are often as important to new product development as market trends, with substantial implications for the wipes market. One of the key drivers in the quaternary ammonium compound (Quat) based disinfectant wipes market is the EPA's Re-registration and Eligibility Decision (RED) and the associated Data Call-In (DCI). The EPA required the re-registration of all quat-based antimicrobial active ingredients and end use products, including disinfectant wipes. This activity has re-defined the portfolio of registered antimicrobial wipe products in the marketplace as companies have been obligated to support their registrations with updated data, remove claims from their labels or eliminate products all together. One of the biggest challenges through this process is that a few years ago EPA changed the performance criteria for disinfectant products; products which were registered under the previous standards are now forced to comply with new standards, making it more difficult to maintain efficacy claims. Due to the interaction between the disinfectant formulations and wipe substrates, generating data to satisfy the DCI for wipes requires substantial resources (i.e. analytical, regulatory, etc.), when compared to liquid registrations. Furthermore, as the data requirements for wipe registrations become stricter, wipe suppliers need to adjust by developing new formulations that will meet stricter data requirements and demonstrate efficacy against hard to kill organisms.

Industrial Wipes

It's already been five years since the U.S EPA enacted its wiper ruling, leveling the playing field between disposable wipes and reusable rags in many industrial settings. As it stands now, states continue to adopt the ruling. So far, 33 have adopted it while six, California, Colorado, Delaware, Hawaii, Minnesota and Rhode Island—have indicated they will not move forward with it. One state, New Hampshire, adopted the rule but modified its provisions by only allowing these wipers to be disposed of in municipal waste combustors—not in landfills— and the remaining states continue to review the measure.

INDA is continuing to track the remaining states and is encouraged that some of them will implement the rule in the coming years saying that the industry always expected that the number of states that would adopt it would be in the range of 38-42 because certain states generally don't pass rulings that are less regulatory.

Despite this adoption, some say the ruling has not had the impact on sales that was expected.

Hand Wipes

Hand wipes, and the juices that fuel them, are being impacted by efforts of the Food and Drug Administration to redo regulations overseeing over-the-counter products for antibacterial hand and hygiene products. The FDA operates through monographs, which are basically a set of requirements for each specific category in the OTC segment. There has been a monograph proposed for antiseptic skin products since 1974 and while it was revised several times over the years it has never been proposed. In the meantime, there are companies that have been making antibacterial hand products, including wipes, with a number of different active lists like Triclosan until 2013 when a growing body of evidence indicated that the active was not safe for this category. The FDA was sued by the National Resource Defense Council (NRDC) forcing it to follow through on its duty to regulate Triclosan and revisit the monograph first proposed in 1974. The FDA came to an agreement on regulations for this material in 2013. Around that time, FDA agreed they would finalize the monograph for antibacterial skin care products through a multi-tiered plan which included taking the original 1994 monograph and splitting it into three different categories: consumer hand wash or soap, healthcare hand use and consumer hand rubs.

To date, the monograph for consumer hand wash has been finalized while the other two are still pending. However, under each monograph is a long list of potential actives that could be—and often are—used in these products—20 or more even though it was initially focused on Triclosan. So now wipes manufacturers and their suppliers are looking for information on all of these actives and will provide information supporting the use of them to FDA.

(Nonwovens-Industry.com - 12 April, 2018)

Philippines' FDA bans sale of 12 Korean cosmetics due to antimony levels

The Food and Drug Administration (FDA) of the Philippines has issued a public health alert regarding 12 Korean cosmetics due to high levels of antimony.

Antimony is a heavy metal known to cause symptoms such as skin irritation, headaches, nausea, vomiting, insomnia and abdominal pain. It is said that the metal can also cause damage to the lungs, heart muscle and liver.

The FDA has advised anyone showing symptoms due to antimony toxicity to consult a doctor.

The alert follows a move by South Korea's Ministry of Food and Drug Safety (MFDS) to ban distribution of the products and recall orders.

The banned products include Aritaum Full Cover Stick Concealer (#1 Light Beige), Aritaum Full Cover Stick Concealer (#2 Natural Beige) and Aritaum Full Cover Cream Concealer (#1 Light Beige & Natural Beige), as well as Aritaum Full Cover Cream Concealer (#2 Olive Green & Pink), Etude House Drawing Eyebrow Duo (#3 Gray Brown) and XTM Style Homme For Men Easy Stick Concealer.

Also included in the list are Black Monster Homme Black Erasing Pen, Skeda Homme Spot Concealer, Skinfood Cherry Full Lip Liner (Rose Cherry), 3CE Slim Eyebrow Pencil (Chestnut Brown), Makeheal Naked Slim Brown Pencil Br0203 and Makeheal Naked Slim Brown Pencil Yl0801.

Consumers already in possession of the products have been advised to immediately stop using them and throw them away.
(cosmetic-technology.com - 12 April, 2018)

European trade associations fear potential MIT restriction

The paint and cleaning product industries have voiced fears that an expected restriction of methylisothiazolinone (MIT) under the EU's biocidal products Regulation (BPR) could push the preservative off the market.

In February, the EU's REACH committeevoted to approve a harmonised classification of MIT as an allergen in mixtures like paint and detergents under the CLP Regulation. Products will have to be labelled when they contain more than 0.0015% of MIT.

This could lead to a concentration limit of 15 parts per million (ppm) on MIT under the BPR. The biocides and CLP Regulations are interlinked: the BPR refers to potential restrictions and bans on substances that have certain classifications, such as for skin sensitisation.

But because MIT is no longer effective at a concentration of 15 ppm, this would amount to it being "de facto banned" from the DIY sector, warned Christof Walter from the German Paint and Printing Ink Association (VdL).

Industry would be "heavy affected " by such a restriction, because MIT is "an essential tool to prevent the development of bacterial tolerance". The paint industry haswarned before that a decreasing number of in-can preservatives, available for use in paints, is risking the development of resistant biofilms. The VdL is urging authorities not to restrict MIT under the BPR.

'Disappearing preservatives'

The soap and detergents trade body, Aise, expressed similar concerns about an MIT restriction. Mohamed Temsamani, the organisation's head of external affairs, told Chemical Watch that it would "have disproportionate effects for the industry by essentially banning/disqualifying, under the BPR, one of the key in- can preservatives available on the market".

Although other active substances with the same efficacy exist, he said these were limited and could also be subject to classification.

The shrinking pool of available preservatives has long been aproblem for industry – particularly the personal care sector which has faced a number of restrictions and bans over the last four years.

Mr Temsamani added: "This is yet another worrying signal that key substances are being phased out, or measures are taken which are essentially equivalent to a ban. The industry's core substances used for preservation of products are disappearing one after the other without any solution being readily available".

His concern was echoed by Dr Walter, who said: "The very few alternatives are also under regulatory pressure, due to the automatism between the CLH process and the BPR. Hence, we fear that the future of water-based products is in danger if this process continues".

The Commission's proposal for MIT's CLP classification is currently undergoing scrutiny by the Council of Ministers and the European Parliament. They can either veto it, or allow the Commission to adopt it.
(Chemicalwatch.com - 10 April, 2018)

RAW MATERIALS / PACKAGING NEWS

US ACC sets goals to recycle, recover all plastic packaging by 2040

The American Chemistry Council's (ACC) Plastics Division has established three goals for the recycling and recovering of all plastic packaging in the US by 2040, the industry group said.

The goals are:

- 100% of plastics packaging is re-used, recycled or recovered by 2040;
- 100% of plastics packaging is recyclable or recoverable by 2030; and
- 100% of US manufacturing sites operated by ACC'sPlastics Division members will participate in Operation Clean Sweep-Blue by 2020, with all of their manufacturing sites across North America involved by 2022.

"We are embracing the drive toward a circular economy for plastics because it helps demonstrate our overarching commitment to sustainable materials management," said Steve Russell, ACC's vice president of plastics.

"In setting these goals, our industry is publicly affirming our vision of the future [that] we want for safe, sanitary plastic packaging and our intention to get there quickly."

The ACC said US plastic resin producers plan to focus on six areas:

- Designing new products for greater efficiency, recycling and reuse;
- Developing new technologies and systems for collecting, sorting, recycling and recovering materials;
- Making it easier for more consumers to participate in recycling and recovery programmes;
- Expanding the types of plastics collected and repurposed;
- Aligning products with key end markets; and
- Expanding awareness that used plastics are valuable resources awaiting their next use.

"Plastics resin producers are accelerating their commitments by building new coalitions and forging new business models that will help optimise a range of environmental, economic and societal outcomes," said Rick Wagner, global sustainability manager at Chevron Phillips Chemical. "Some of these involve turning used plastics back into their basic building blocks so we can create new plastics."
(ICIS News - 9 May, 2018)

Sun Chemicals to celebrate 200th anniversary

"Beginning with the inspiring legacy of Lorilleux and Samuel Morris in the early 1800's, Sun Chemical has delivered 200 years of color expertise, innovative technology and an ongoing commitment to quality and service for our customers," said Rudi Lenz, President and CEO, Sun Chemical. "Having held close to 10,000 worldwide trademarks and over 3,000 granted patents in various global jurisdictions in its history, Sun Chemical takes pride in producing solutions tailor-made to meet the individual needs of our customers."

Sun Chemical has helped transform the printing industry by leading the way as the first to develop UV inks, water-based inks, pigmented flexo inks, and flexo inks for polyethylene films. Sun Chemical was also the first to create the four-color wet process inks system in 1906, now commonly known as CMYK printing.

Sun Chemical is a pioneer in the development of migration-compliance inks and in producing solutions for the newest presses of the time, including rotary tinplate lithography, web offset lithography, letterpress, flexo and rotogravure.

Sun Chemical has been manufacturing pigments since 1907. Today, the Performance Pigments Division is a global leader in the pigments industry offering a wide array of pigments, effects and preparations for the coatings, cosmetics, plastics, inks and specialties markets. Continuous innovation in new color space and providing unique colors and effects into a variety of existing and new markets, has enabled tremendous growth globally.

With DIC Corporation's acquisition of the company in 1987, Sun Chemical became the truly global company it is today with growth within the Latin American and Middle Eastern markets and the formation of the Advanced Materials division, which delivers compounds, polymers and application materials to broad markets. Sun Chemical Advanced Materials offers a vast array of solutions to fulfill customers' advanced printing requests for custom materials, including high-performance silver inks for 3D printing systems, nanosilver inks for inkjet systems, soldermasks, pressure sensitive adhesives for electronics and displays, andSunMotion, a compelling display solution for point of purchase displays.

"Sun Chemical's vision has been and will always be to help customers take on the global challenges of the future by providing quality, service and innovation in every solution we deliver," Lenz said. "For the future, we are committed to pursuing research and development that will bring our customers new innovative and sustainable solutions. We look forward to celebrating this ongoing commitment to excellence as a company and with our customers this year."
(Sunchemical.com - 3 May, 2018)

Weener Plastics (WP) has announced the acquisition of Proenfar from parent company Altra Investments.

Weener Plastics (WP) Group acquires Latin American packaging solutions provider Proenfar from Altra Investments. The agreement was signed on 23 April 2018. With this acquisition, plastic packaging supplier WP continues its expansion in emerging markets and strengthens its product portfolio. The parties have agreed not to disclose the purchase price. The transaction is subject to customary closing conditions.

Proenfar and WP complement each other perfectly. While WP has a strong presence in Europe, Proenfar is a leading player in Latin America. Proenfar, headquartered in Bogotá, Colombia, employs more than 1,600 people and has four production plants in Colombia, Argentina and Mexico. The company exports its products to more than 20 countries across the Americas and has long-standing customer relationships with multinational and local companies in the pharmaceutical and personal care markets. With this acquisition, WP not only expands its international presence, it also strengthens and broadens its customer relationships with multinational as well as Latin American companies.

With regard to the product portfolio, Proenfar is an excellent fit with WP's focus on innovative packaging technologies allowing WP to grow in strategic product categories such as deodorant packaging. Both companies have innovation as a core competence and invest in product and process improvements to offer the best packaging solutions for their customers. The acquisition also enables WP to expand its product portfolio with the addition of pharmaceutical packaging, thus diversifying the company's customer base.

Roel Zeevat, CEO of WP, said: "The acquisition of Proenfar marks an important milestone in our successful international expansion. I am convinced that our customers will benefit from this transaction as Proenfar shares our strong focus on innovation and customer service. We look forward to working together with Proenfar's experienced management team and welcome all their employees to the WP group". Mario Vergara Corradine, President of Proenfar, said: "We strongly believe that in WP, we have found the perfect partner. Our geographic reach and product portfolio complement each other perfectly. But even more importantly, we share the same culture of promoting innovation, entrepreneurship and excellent customer service. In recent years, we have grown Proenfar from a local Colombian business to a leading Latin American player. Together with WP, we are ideally positioned to take the next step on our growth path".
(http://www.wppg.com - 24 Aprilf, 2018)

Henkel expanding use of regranulated resin in flexible packaging for its laundry detergents

Consumer goods company Henkel is committed to creating more value for its consumers while reducing its environmental footprint at the same time. To reach its stated goal of becoming three times more efficient by 2030 — dubbed "Factor 3" — the company will have to improve its efficiency by an average of 5-6 % per year. That's why Henkel turned to long-time partner Mondi to help find a solution for incorporating more of its scrap plastic into a highly functional, aesthetically pleasing, flexible laminate packaging material.

Henkel has begun selling its Megaperls washing powder in the resulting flexible package — called a "quadro seal bag" — that consists of an OPP/PE laminate. At present, 30% of the package's PE layer consists of industrial waste reclaimed from Mondi's factory in Halle, Germany. That means the overall package structure contains approximately 10% regrind material.

Given the technical challenges involved, both companies recognize this as an important initial step to helping ensure that such consumer packaging meets the environmental needs of a more circular economy. Considering the package requirements — a shiny white exterior, an easy-peel opening, and no compromise in overall functionality — this is already a significant achievement for a thin, flexible OPP/PE laminate. But the two partners have much more ambitious goals.

"Our aim is to achieve 50% level of regranulate in the full structure," says Timo Müller, Mondi's Key Account Manager for Henkel. This project has been made possible by the advanced resin reclamation technology in place at Mondi's Halle plant, which allows the firm to collect and separate not only transparent and white materials, but also those that do not contain a slip agent. This helps to enable the use of regrind in the laminate without negatively impacting its material specifications and product mechanical properties, according to Müller. "We are working closely with our OPP film supplier," he adds, "to allow us to use oriented polypropylene with regranulated content, thereby enabling us to increase the percentage of reclaimed material in the entire structure."

The resulting end product offers clear environmental benefits: Virgin resins are replaced with regrind material and the product's end-of-life recycling process is simplified as the OPP/PE laminate structure consists entirely of polyolefin materials, Müller notes.

"Our packaging developers work constantly to design smart packaging that uses the least amount of material possible, is recyclable and incorporates more recycled material," said Dr. Thorsten Leopold, Head of International Packaging Development Home Care, Henkel. "Mondi provides us with valuable technological expertise to implement a more sustainable solution for some of our laundry and home care product packaging." The two partners look forward to significantly boosting the percentage of reclaimed content in more Henkel packaging to contribute further to Henkel's ambitious Factor 3 sustainability goal.
(Henkel.com - 18 April, 2018)

Bio-on launches a brand-new line of cosmetic ingredients for sun protection made from biodegradable bioplastic

Bio-on is proud to present a brand-new line of cosmetic ingredients for sun protection made from its revolutionary, 100% natural and biodegradable bioplastic. The new products are part of the minerv bio cosmetics family of bioplastic micro powders presented in spring 2017 and designed for cosmetics that respect the environment and human health. This latest innovation is a series of ultra-green, high- performing SPF (Sun Protection Factor) Boostersdesigned to improve sun protection products.

Increased awareness of the harm caused by exposure to sunlight is accelerating the number of products with UV filters released on the market. Their purpose is to screen against UV radiation: UV-B rays, the most common cause of sun erythema and sunburn, and UV-A rays, which are responsible for more serious long-term effects: blood vessel damage, photoaging, photocarcinogenesis.

What people ignore is that, unfortunately, organic UV filters can be phototoxic and photounstable. The main goal of the scientific community is to find a way to limit their concentration in cosmetics formulas without compromising performance. This is where the new SPF Booster line developed for theminerv bio cosmetics brand comes in. These ultra-green ingredients (micro powders made from biodegradable bioplastic microscopic spheres or capsules) are designed to significantly reduce the percentage of UV filters used in the sun protection product and boost water-resistance. Theminerv bio cosmeticsportfolio, which already includes texturizing powders for skin care and make-up, mattifiers, scrubs, and micro capsules for the controlled release of active substances, ideal for anti-ageing treatments, is now extended to include:

- minervPHB RIVIERAan SPF Booster suitable for all solar formulations
- minervPHB RIVIERA PLUSan innovative SPF Booster, enriched with antioxidants, ideal for total care products (skin care, make-up, hair care).

"RIVIERA represents another building block in our green cosmetics revolution,"; saysMarco Astorri, Bio-on Chairman and CEO, "to make the personal care market truly sustainable and fully respect the ocean and the land. By continuing to find new solutions for the cosmetics sector our company is setting a new standard thanks to our PHAs bioplastic".

The new line of SPF Boostersis the result of the innovative R&D done byBio-on CNS, the Business Unit specialised in the development of cosmetic ingredients.

"The RIVIERA line is a success story from our Powder Boutique," explainsPaolo Saettone, Managing Director of CNS Business Unit, "a site dedicated to advanced research, where our scientists play with our versatile biopolymer like tailors play with fabrics, seeking out the perfect morphology and technology to maximise performance. This fine work has created the RIVIERA micro particles, which are the perfect scattering centre element for UV rays".

All the PHAs (polyhydroxyalkanoates)developed byBio-on are made from renewable plant sources with no competition with food supply chains. They can replace a number of conventional polymers currently made with petrochemical processes using hydrocarbons; they guarantee the same thermo-mechanical properties as conventional plastics with the advantage of being completely eco-sustainable and 100% naturally biodegradable. Since 2007 Bio-on has been dedicated to changing the world of plastic, to reduce pollution for a more sustainable future and preserve nature thanks to its exclusive, innovative know-how in bio-based and eco- compatible plastics development.

Starting in summer 2018, allminerv bio cosmetics products will be made by Bio-on Plants, Bio-on's first industrial plant dedicated to the production of cosmetic ingredients. Located in Castel San Pietro Terme (Bologna), it will produce 1000 tons/year of PHA micro powders (polyhydroxyalkanoates) over an area of 3,000 m 2 with an overall investment of 20 million Euro.
(Global News Wire - 16 April, 2018)

DEINOVE and GREENTECH launch HEBELYS, their 1st anti-aging active ingredient

DEINOVE, a biotechnology company that discovers, develops and produces compounds with high added value from rare bacteria, and GREENTECH, a major player in the production and distribution of active ingredients derived from biotechnology, announced the launch of HEBELYS®, the first anti-aging active ingredient resulting from the collaboration launched in March 2017 [1]

HEBELYS® was presented in the GREENTECH booth at the In-cosmetics Globaltrade show, which took place in Amsterdam from April 17 to 19, 2018. This anti-aging active ingredient is obtained by fermentation of aSphingomonas bacterium, a rare microorganism coming from the DEINOVE strain library.

Throughtests, HEBELYS® demonstrated its ability to preserve youthful skin, acting on different parameters: protection against oxidation, stimulation of collagen, elastin, and fibrillin synthesis. HEBELYS® has, in particular, a significant and proven action on the expression of the p16 IINK4A protein, a key factor of premature cellular aging.

Under the effect of HEBELYS®, the skin is protected, regaining density, suppleness, and elasticity: younger-looking.

HEBELYS® is the first active ingredient resulting from the collaboration between DEINOVE and GREENTECH, fruit of the alliance of complementary skills: DEINOVE selected the strain, developed the production process to achieve optimal fermentation performances, and supervised thein vitro tests intended to characterize the extract; GREENTECH developed the formulation process, and validated the stability and the safety, as well as the efficiency, by additional ex vivo tests.

HEBELYS® will be marketed effectively by GREENTECH.
Jean-Yves Berthon, CEO of GREENTECH, stated:"This first collaboration is a real success. HEBELYS® is a truly great active ingredient, fully in line with our catalog and our ambition to offer the cosmetic industry high- tech active ingredients".

Emmanuel PETIOT, CEO of DEINOVE added:"The joint work of both teams has been very rewarding. We are proud to have responded to GREENTECH's expectations in terms of innovation and achieved a commercial product so quickly. We intend to continue in this direction".
(Global News Wire - 16 April, 2018)

Sending a Message to Plastic Bottles

Researchers from Britain's University of Portsmouth and the US Department of Energy's National Renewable Energy Laboratory (NREL) say they have discovered a plastic-eating enzyme that could help solve the world's garbage problems. They're discovery was made while examining the structure of a natural enzyme found in a waste recycling center a few years ago in Japan.

They say the enzyme, Ideonella sakaiensis 201-F6, is able to "eat" polyethylene terephthalate, PET, which was patented as a plastic in the 1940s and is used in millions of tons of plastic bottles. Their aim was to study its structure, but they accidentally engineered an enzyme which was even better at breaking down PET plastics.

"We hoped to determine its structure to aid in protein engineering, but we ended up going a step further and accidentally engineered an enzyme with improved performance at breaking down these plastics," said NREL's lead researcher Gregg Beckham.

The researchers say their discovery could result in a recycling solution for millions of tons of plastic bottles made of PET, which currently persists for hundreds of years in the environment.

"Serendipity often plays a significant role in fundamental scientific research and our discovery here is no exception," said Professor McGeehan, director of the Institute of Biological and Biomedical Sciences in the School of Biological Sciences at Portsmouth.
(HAPPI - 17 April, 2018)

Deinove launches active cosmetic ingredient phytoene

French biotech company Deinove has launched a new chemical formulation comprising phytoene. Intended for use as a cosmetic active ingredient, Phytoene is a colourless carotenoid that is produced through the fermentation of natural sugars by Deinococcus geothermalis, an extremophile bacterium. The fermentation process has been designed by Deinove's scientific platform.

Known as Phyt-N-Resist, the formulation created by the company comprises phytoene concentrated in refined jojoba oil, which is claimed to help fight against skin-ageing by reducing oxidative stress and accelerating repair.

The company has conducted in-vitro, ex-vivo and clinical studies to demonstrate Phyt-N-Resist's efficacy and tolerability.

The testing focused on the carotenoid's ability to reduce the number of lipoperoxidation products, caused by exposure of cells to ultra-violet (UV) radiations.

Deinove CEO Emmanuel Petiot said: "We are thrilled to introduce Phyt-N-Resist, our first innovative carotenoid for cosmetic use.

"Our teams have done excellent work to complete this project and deliver on time our first commercial solution. "The preliminary contacts with cosmetic players have been very positive and we look forward to presenting it to the whole industry in Amsterdam next week."

The company believes that phytoene's stability at high temperatures allows it to be considered for make-up applications.

Deinove marketing director Coralie Martin said: "Inspired by life genius and convinced by the potential of symbiosis, we have developed an exclusive platform that relies on extremophile bacteria with extraordinary resilience, to achieve the biosynthesis of precious actives."

Following the clinical study, the company has concluded that Phyt-N-Resist has anti-wrinkles action and can be used as an anti-ageing active ingredient for the beauty industry.
(Cosmetic-technology.com - 18 April, 2018)

Azelis to distribute Evonik ingredients in India, Nepal and Bangladesh

Speciality chemicals manufacturer Evonik has entered a personal care ingredients distribution agreement with Azelis. Under the agreement, Azelis will act as the exclusive distributor for Evonik products in India, Nepal and Bangladesh.

Evonik offers actives, emulsifiers, emollients and functional ingredients for skincare, haircare and colour cosmetics.

Azelis India managing director Aparna Khurana said: "We are delighted with the addition of the Evonik product line and are convinced this range will really enhance our current portfolio. We are excited to now be able to offer Evonik's full range of high-performance and quality ingredients to the Indian market." Azelis has expertise in the personal care market and is also a recipient of several awards such as the 2018 Cosmetics Fountain Innovation Award at PCHi exhibition and the Product Innovation Award at Ringier Technology Innovation Awards.

With the new Evonik agreement, Azelis intends to support the Indian market through formulation development, product analysis and technical training from its recently opened personal care application laboratory. Azelis Asia Pacific CEO and president Laurent Nataf added: "Personal Care in India is a significant growth opportunity for Azelis and this partnership will reinforce Azelis' overall position in the Asia Pacific as a leading distributor of speciality chemicals.

"We both have a high focus on innovation and Evonik's cutting-edge ingredients represent a perfect fit for both our portfolio and our strategy to focus on creating value for our customers in the Asia Pacific."
(Cosmetic Technology - 13 April, 2018)

Tata Chemicals to acquire Allied Silica for Rs123 crore

Tata Chemicals said it has signed a pact with Allied Silica Limited to acquire its precipitated silica business for Rs123 crore on a slump sale basis. The deal is expected to be closed within three months, the company said in a release. The acquisition is a part of the Rs.295 crore investment approved by the board in February last year, towards this specialty business, the company said.

The business transfer agreement with Allied Silica includes the acquisition of an existing manufacturing site in Tamil Nadu, which will produce highly dispersible silica (HDS), the release said. The specialty chemical product represents a downstream value addition to Tata Chemicals soda ash business, where it ranks among the top manufacturers globally, it added.

"This acquisition is another step in our journey to build technologically enabled, differentiated businesses, with greater customer centricity, by leveraging our core strengths. "The manufacture of speciality and performance silicas is one such area. This is in line with our focus to grow our specialty business, along with our consumer business," said Tata Chemicals managing director R. Mukundan.

Precipitated silica is a versatile product with applications in many industries including rubber, oral care, coatings and agrochemicals. The acquisition also offers the possibility to make value added silica in the future for applications that demand high performance, the release said, adding that the technology for manufacturing HDS, for which eight patents have already been filed, has been developed at the company's innovation centre in Pune.
(Economic Times - 8 April, 2018)

Packaging company DS Smith agrees takeover of spanish rival Europac

Packaging company DS Smith has agreed a takeover of Spanish rival Europac in a deal worth €1.67bn including debt. The deal will increase FTSE 100-packaging manufacturer DS Smith's size and is thought to be a bid to capitalize on the global boom in online sales. The deal included €16.8 per Europac share and values the company at €1.9bn on an enterprise value basis, according to Proactive Investors.co.uk

Financed through €1.1 billion rights issue and €740 million of new debt it is DS Smith's first acquisition in Western Europe for almost six months.

According to Europac's board, the acquisition is subject to financial duties and to continued assessment of relevant documentation.

Miles Roberts, Group Chief Executive of DS Smith, said, "The acquisition of Europac is a very exciting development for DS Smith, strengthening our position as a leading global supplier of sustainable packaging solutions. We have a long-standing relationship with Europac, which is a company we have long admired, given the quality of their assets, employees and customers."
(Global Cosmetic News - 7 June, 2018)

PATENT & IP NEWS

Avon Earns Retinol Patent

For years, researchers have insisted that, over time, skin care products stop working as the skin acclimates to the treatment. In 2017Avon introduced Anew Reversalist Infinite Effects, the world's first rotational anti-aging night cream that provides continuous results that do not stall over a full year.

Born from the insight that women worldwide believe that "their skin care products stop working over time," Avon's extensive research confirmed that there is scientific truth behind this belief. The solution? A novel way to make retinol, a gold standard ingredient for skin care, work even harder through a rotational regimen.

"Infinite Effects is our biggest game-changer of the last 15 years," insisted Louise Scott, chief scientific officer, Avon. "The idea of interval training for your skin to avoid the commonly reported 'plateau effect' is an inspired concept with impressive ongoing results proven through a one-year clinical study. I'm very proud of the world-class team behind this innovation."

Based on this success Avon has been granted US Patents 9,956,151 and 9,968,538 for this new technology currently included in the Anew Reversalist Infinite Effects and most recently the Anew Ultimate Infinite Effects products.
(HAPPI News - 8 June, 2018)

Royal DSM wins patent infringement case against Lallemend regarding low-glycerol yeast technology

Royal DSM has emerged victorious in a patent infringement case against Lallemend, with a unanimous jury verdict in a Federal court in Wisconsin concluding that all glycerol reducing ethanol yeast products, used in cosmetics, infringe DSM's US Patent 8,795,998.

Despite the two companies attempting to settle out of court on numerous occasions, DSM eventually filed the case. The global science-based company stated that Lallemend's products, which include Transferm Yield+ and YP3, used in the production of ethanol infringe its products, with a jury taking seven days to reach the conclusion that DSM's patent is valid.

Atul Thakrar, President of DSM Bio-based Products & Services, said, "We are happy with the outcome of the case. Our focus is to bring customers the latest in yeast technology allowing them to deliver the best fermentation results.

"Continual development and protecting this intellectual property is a key component of our strategy that supports our significant biofuel investments. We are committed to deliver differentiating yeast and enzyme technologies that enable biofuel plant owners to optimize their processes and maximize their yields and profits in a sustainable way."

Lallemend refused to comment while the case is still ongoing, with Angus Ballard, President and General Manager stating, "Lallemand Biofuels & Distilled Spirits prefers not to comment while this legal dispute is ongoing.

"We would like to thank our customers for their continued trust and support while we continue the legal process to ultimately resolve this dispute between Lallemand and DSM."
(Global Cosmetics News - 21 May, 2018)

New Jersey court orders Johnson & Johnson et al to pay us $ 117 million in asbestos talc case

A New Jersey state court has ordered Johnson & Johnson and Imerys Talc America to pay out US$117 million in damages to a plaintiff who claims that exposure to asbestos in talc products caused him to develop cancer, according to a report published by Reuters.

The award is divided into US$80 million in punitive damages and US$37 million in compensatory damages. The punitive damages have been split between the two defendants this: Johnson & Johnson is to pay US$55 million and Imerys US$25 million.

The jury trial was the second US case to focus on the asbestos content of talc marketed by J&J. It was also the first time that a court has upheld allegations that J&J's talc products contain asbestos. The US pharma giant is also fighting multiple cases that claim that talc can cause ovarian cancer.

Johnson & Johnson has launched an appeal, stating that it would continue to defend the safety of its products and claiming that it had been barred from presenting important evidence in court. Imerys Talc America has also issued a statement revealing its intention to appeal.
(Global Cosmetic News - 16 April, 2018)

ASSOCIATION NEWS

ACI Honors best 2017 research paper published in Journal of Surfactants and Detergents

Research that explores new ways for laundry detergents to improve their cleaning performance in lower wash temperatures was honored with the American Cleaning Institute (ACI) Distinguished Paper Award, recognizing the most outstanding research to appear in 2017 in the Journal of Surfactants and Detergents.

The award is presented at the Annual Meeting of the American Oil Chemists' Society, during a luncheon of the group's Surfactants and Detergents Division.

Removing vegetable-oil based stains from fabric is one of the toughest challenges when doing the laundry. Removing soils at lower-wash temperatures can be even more challenging.

Researcher Chodchanok Attaphong – from King Mongkut's Institute of Technology Ladkrabang, in Bangkok, Thailand – and colleagues showed for the first time that novel formulations of laundry detergents in combination with naturally occurring water hardness can form oil-in-water microstructural emulsions, known as microemulsions, that are capable of providing enhanced cleaning performance of oily soils at 10°C, under realistic surfactant concentrations found in commercial washing products.

"Energy conservation is of increasing importance in daily life, particularly energy consumption in households," said Dr. Attaphong. "Reducing energy consumption in the laundry process is receiving increased attention. It has been reported that lowering the wash temperature below 30oC (from 40oC) can achieve 50 to 65 percent energy savings."

"Through our research, we observed that the promising formulations of laundry detergents could accomplish high detergency efficiencies in natural water at cold temperature,"she added. "This encouraging outcome will lead to further research of the detergency performance enhancement for energy-saving commercial household products."

The research paper, "Optimized microemulsion systems for detergency of vegetable oils at low surfactant concentration and bath temperature,"appeared in the July 2017 edition of the Journal of Surfactants & Detergents [Attaphong, C. and D.A. Sabatini, J. Surfact. Deterg. 20: 805. 2017,https://link.springer.com/article/10.1007%2Fs11743-017-1962-8]
(ACI News - 18 May, 2018)

AOCS 2018: ACI shares insights, honors research on low temperature laundering

The American Cleaning Institute will summarize the science related to laundering in low wash temperatures, highlight ACI's STEM education activities, recognize research exploring new ways to improve cleaning at lower temperatures, and cosponsor a major networking event at the 2018 AOCS Annual Meeting & Expo, May 6-9 in Minneapolis.

The event features more than 650 technical presentations, including many in the surfactants and detergents arena. ACI's 2018 activities at the Minneapolis Convention Center include:
May 7
Surfactants & Detergents Division Networking Reception (Room M101C)
Presentation: How the "Science of Soap" Inspires Future Generations of Scientists ACI returns as a cosponsor of a major networking event for detergent and cleaning product industry researchers.
The reception will feature a brief presentation by Darci Ferrer, ACI Senior Manager, Environmental Sciences, who will review ACI's multi-year effort to engage and educate young students in the science behind cleaning products through interactive activities at science festivals and new online tools.

May 8
Session on New Technologies for Cold Water Laundry Detergency (Room 200C)
ACI presentation: Microbes in your laundry: does washing on "cold" make a difference?
Darci Ferrer, ACI Senior Manager, Environmental Sciences, will explore whether there is a difference in microbial reduction from washing on "hot" compared to washing on "cold" based on wash water temperatures representative of the United States.

Surfactants & Detergents Division Luncheon (Room M101C)
ACI will present its annual Best Paper Award for the top research article that appeared in 2017 in the Journal of Surfactants & Detergents. This year's honor recognizes research that explores new ways for laundry detergents to improve their cleaning performance in lower wash temperatures.

The research paper, "Optimized microemulsion systems for detergency of vegetable oils at low surfactant concentration and bath temperature," appeared in the July 2017 edition of the Journal of Surfactants & Detergents [Attaphong, C. and D.A. Sabatini, J. Surfact. Deterg. 20: 805. 2017,https://link.springer.com/article/10.1007%2Fs11743-017-1962-8.
(ACI News centre - 3 May, 2018)

ACI Sustainability Report Named Winner in PR Daily Awards Annual Report Category

The American Cleaning Institute's (ACI) 2017 Sustainability Report,Foundations for Transformation, received First Place honors in the Annual Report category ofRagan's 2017 PR Daily Awards. The Report also received an Honorable Mention in the Print Publication category.

In summarizing the Report's award,PR Daily wrote:
"The data in the report is drawn from an impressive program that captures annual progress by aggregating the environmental metrics of ACI member organizations that participate in the program. ACI turned creative development over to CooperKatz & Company, which used an open design with simple graphics and well- written, descriptive text to deliver an eminently readable narrative that makes a strong case for an industry committed to ongoing reduction of its impact on the environment.

"The online version of the report is solid, along with ACI's strategy to attract social media attention, but the print version of the 2017 report was gorgeously printed and made available to ACI's member companies. The report also attracted news media attention, resulting in multiple stories in industry and environmental publications. It stands as an archetype for what a sustainability report can do for an organization or industry."

The full write-up is available athttps://www.prdaily.com/Awards/SpecialEdition/907.aspx.

"Ultimately, we are using the results from our 2017 Sustainability Report as a foundation for transformational change," said Melissa Hockstad, ACI President & CEO. "As the trade association for the cleaning product supply chain, ACI commits to leading the charge in sustainable leadership throughout our industry." Besides the PR Daily Awards just announced, ACI's 2017 Sustainability Report has received several other honors, including:
PR Daily Nonprofit PR Awards: Best Print Publication; Honorable Mention, Annual Report category. Six awards from the League of American Communications Professionals (LACP) in its Vision Awards annual report competition.

Three Honorable Mentions in PR News NonProfit Awards and CSR Awards categories.
(ACI News - 29 April, 2018)

ACCORD reports outstanding industry progress on phase-out of solid plastic microbeads

Accord welcomes the announcement by Federal Environment Ministers Frydenberg and Price that recognises the significant achievements by Australian industry in the voluntary phase out of solid plastic microbeads from relevant categories of products.

According to the Federal Ministers' joint Media Release, "Industry has successfully risen to the challenge issued by Australia's environment ministers to voluntarily phase out the use of microbeads in cosmetic and personal care products".

Meeting of Environment Ministers (MEM) also confirmed that the "voluntary phase-out of microbeads, which Ministers initiated in 2016, is on track". Coordinated by industry body Accord Australasia under the BeadRecede campaign, the voluntary initiative has a deadline of 1 July 2018 for the phase-out of solid plastic microbeads in rinse-off and exfoliating cosmetic, personal care and cleaning products. Even though research around the globe has shown that the cosmetic and personal care industry's contribution to plastic marine litter is very minor, our industry took swift action to voluntarily remove microbeads from these rinse-off and exfoliating products.

"Two independently validated progress reports submitted by Accord have shown strong commitment to voluntary action across our industry in removal of microbeads," said Accord Executive Director Bronwyn Capanna. "Additionally, an independently commissioned survey of products in the marketplace conducted in late-2017 confirmed the industry's significant progress," continued Ms Capanna. "For example, this marketplace survey further established that none of the shampoos, conditioners, body washes and hand cleaners sampled contained solid plastic microbeads."

Although this survey also included leave-on products and other polymers that were not present in microbead form, 94 per cent of all products sampled did not contain microbeads or other non-soluble plastic polymers. Of the remaining 6 per cent, most were leave-on, not rinse-off, nor otherwise reasonably capable of entering the marine environment. Products relevant to the voluntary phase out of microbeads such as facial scrubs – estimated as only 0.6 per cent – are expected to move through the supply chain well before the July 2018 deadline. Our industry is doing its part – similar policy action on other, much more significant sources of microplastic in the marine environment should now be the focus. Accord looks forward to another independent survey of microbeads in the marketplace to be conducted after the 1 July 2018 deadline to further validate the success of the voluntary phase-out.
(ACCORD News - 27 April, 2018)

A.I.S.E, and UKCPI urge EU Brexit negotiator to avoid regulatory divergence

A.I.S.E., together with its member the UK Cleaning Products Industry Association (UKCPI), has outlined its concerns about the impact of Brexit negotiations on business certainty for the EU 27 and the UK. A joint letter has been sent to Brexit negotiator Michel Barnier, covering the importance of the detergents industry for the EU economy, and specifically the need to:

- Safe-guard companies' license to operate
- Maintain business certainty for the future
- Maintain unimpeded trade flow between the UK and the EU

We support an approach that avoids negative consequences on employment and growth in the UK and in the EU-27. Regardless of what models will ultimately be adopted, our associations would like to stress that:

- Any change that will affect the speed or cost of moving goods or people between the UK and the EU will have a deleterious effect for business and prosperity, on both sides of the channel;
- Any changes that will lead to a different regulatory framework between the UK and the EU will add complexity in monitoring and implementing new regulations. A regulatory divergence or the inability for the UK to access regulatory resource from the appropriate EU agencies will delay the harmonised implementation of measures that aim to protect consumers' safety and the environment.

Trade flows of detergents and maintenance products (2016)

- €490 million: from EU-27 > UK
- €700 million: from UK > EU-27

A.I.S.E. and UKCPI call on both parties to:

- avoid setting tariff barriers and customs hurdles
- preserve the consistency for labelling and marketing access across the English speaking European market
- ensure that businesses and public services have the right customs capacities in place
- avoid regulatory duplication.
- The industry welcomes the transition period to 2020, but requires clarity about what will happen after that date on a series of issues highlighted.

(A.I.S.E News Room - 16 April, 2018)

TECHNICAL ARTICLES

Poly-phenolic branched-chain fatty acids as potential bio-based, odorless, liquid antimicrobial agents

Helen Ngo, Xuetong Fan, and Robert A. Moreau

Demand for bio-based products is progressively increasing due to ongoing consumer concerns about the safety of commercial products and their impact on the environment. Bio-based ingredients tend to be non-toxic (or less toxic), biodegradable, thermally stable, and sustainable, as they are typically derived from renewable or biological resources. To date, the BioPreferred program of the US Department of Agriculture has identified 97 categories of bio-based products used in lubricants, household supplies, toys, printing inks, and bioplastics markets [1].

DESIGN OF POLY-PHENOLIC BRANCHED-CHAIN FATTY ACIDS

The bio-based poly-phenolic branched-chain fatty acids (poly-PBC-FAs) highlighted in this article (Fig. 1) are derivatives of fatty acids which have been successfully produced from two streams of renewable resources: natural phenolics (e.g., thymol, carvacrol, and creosote) and fatty acids derived from oils [2,3,4]. These two renewable resources were chosen because they are potent natural feedstocks having significant bioactive properties. For instance, natural commercial phenolic compounds such as thymol, carvacrol, vanillin, and vanillic acid are typically extracted from plants. They possess antimicrobial properties, probably due to the hydrophilic hydroxy groups on the lipophilic aromatic ring [5]. They are also considered to be as medicinal and flavoring agents. Thymol and carvacrol have been incorporated into polymer films and coatings to inactivate bacteria [6]. A number of surface disinfecting products containing synthetic phenols and natural thymol has been approved by EPA and commercialized with claims of strong antibacterial and antiviral properties [6].

- **Poly-phenolic branched-chain fatty acids (poly-PBC -FAs) are a new group of bio-based materials derived from two streams of natural resources.**
- **Poly-PBC-FAs containing both hydrophobic and hydro philic properties can exhibit excellent antimicrobial activity against Gram-positive bacteria.**
- **Such materials are odorless and liquid at ambient temperature, which makes them easy to apply and handle.**

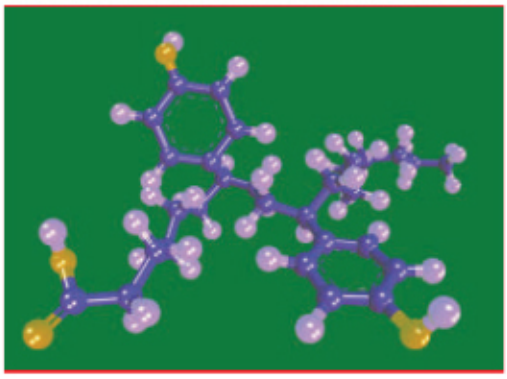
Although phenolics show significant bioactive properties, one of their drawbacks is the unpleasant strong odor which has limited their use in many consumer products. On the other hand, fatty acids derived from vegetable oils and waste oils are also excellent feedstocks for the production of bio-based products. Some well-known fatty acids such as capric acid (10-carbon) and caprylic acid (8-carbon) possess antimicrobial properties, probably because of their hydrophilic carboxylic acid head and a hydrophobic alkyl chain tail. However, they are much weaker antimicrobials than many phenolic compounds. In addition, some of these longer-chain fatty acids contain carbon-carbon double bonds on the alkyl chain which are not stable at elevated temperatures, thereby limiting them from being widely used.

These drawbacks have provided a major opportunity for research development. Our method of combining two renewable resources creates poly-PBC-FAs with distinct advantages over their original parent resources. These materials could potentially be used to create bio-based products with improved biodegradability, a lower impact on the environment, and higher efficacy with respect to inactivating harmful microorganisms.

The chemical arylation process designed to produce these poly-PBC-FA materials has been evaluated in many different ways (Fig. 2). From thorough studies, it was found that this chemical reaction produces the poly-PBC-FA derivatives by linking the phenolics and fatty acids through a carbon-carbon bond. This is important, as the materials cannot easily revert back to their original form. The arylation reaction is also broad, which means that it can be coupled with many kinds of fatty acids and phenolics to create a variety of poly-PBC-FAs.

Recently, a new group of five different kinds of poly-PBC-FAs has been efficiently synthesized at a large scale. Highly efficient distillation methods have also been developed to purify the materials, achieving purities as high as 97%. The overall pro- cess is environmentally friendly, as the reaction only requires the solid zeolite catalyst and distilled water. The zeolite cata lysts can be easily filtered and removed from the desired poly-PBC-FAs. Most importantly, these interesting hybrid materials have both hydrophobic and hydrophilic properties which are important for use as antimicrobials. To the best of our knowledge, our own work in this area is the only example of producing these poly-phenolic branched-chain fatty acids efficiently.

***Poly*-Phenolic Branched-Chain Fatty Acids**



POLY-PBC-FAS AS ANTIMICROBIALS

Advantages of *poly*-phenolic branched-chain fatty acids

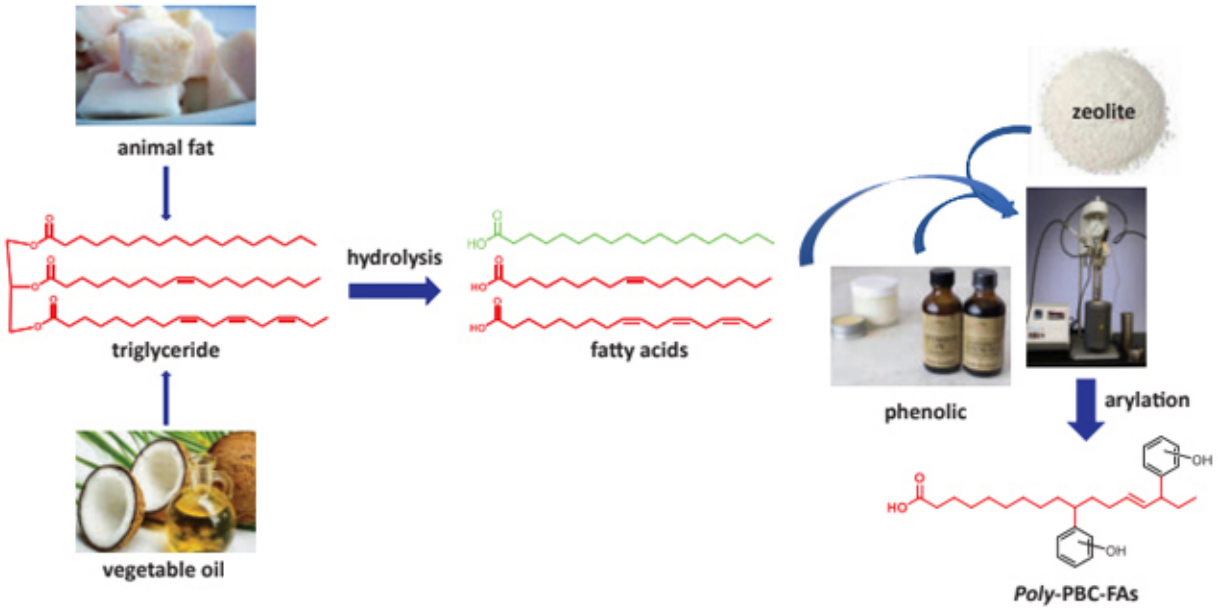
- **Liquid at ambient temperature, odorless, non-volatile**
- **Scalable efficient production reactions**
- **Easy purification by wiped-film distillation**

The end goal of designing poly-PBC-FAs is to take advantage of the bioactive properties of both the original natural phenolics and the fatty acids to create new antimicrobial agents. Research has shown that microorganisms such as Listeria and Escherichia coli have developed a strong resistance to currently used antimicrobials and antibiotics. Therefore, the discovery of new antimicrobials is both urgent and imperative. The search for alternative antimicrobials is an ongoing effort by the international scientific community, which favors natural and/or bio-based compounds because bacteria may have a smaller chance to develop resistance. Our preliminary investigations of poly-PBC-FAs have shown that these bioactive materials not only have antimicrobial properties, but also are far more effective than individual phenolic (i.e., thymol, carvacrol, phenol, and creosote) and parent fatty acids derived from soybean and safflower oils.

For example, the minimum inhibitory concentration (MIC) against the Gram-positive bacteria Listeria innocua for the poly-PBC-FAs was only 8 ppm, while the MICs for the best phenolic and parent fatty acids were >512 ppm. This effective low ppm level indicates that the poly-PBC-FAs are promising antimicrobial agents.

Furthermore, these poly-PBC-FAs are odorless, unlike their phenolic compound precursors, which typically have strong unpleasant odors. They are easier to handle and more environmentally friendly than most current antimicrobial agents, and, most importantly, they can be produced at adequate yield at large scale and purified by distillation.

This new family of unique bio-based antimicrobials display an array of phenolic functionalities which offer potential uses as important intermediates in the production of biodegradable lubricants, antimicrobials, antioxidants, and other potential industrial products.



This article was republished with permission from Inform magazine, issue date March 2018, pp. 20 - 22. The American Oil Chemists' Society (AOCS) is the leading scientific organization for professionals working with fats, oils, proteins, surfactants and related materials. AOCS members influence the fats and oils supply chain, from laboratory to field and product. Learn more at www.aocs.org

PAGs: reducing ester vulnerability to hydrolysis

Neil Canter

Esters have found widespread use in lubricants, and there is growing interest in using them for environmentally acceptable lubricants where their biodegradability meets existing regulatory requirements. While exhibiting good lubricity, an important class of ester-based lubricants, vegetable oils unfortunately are vulnerable to oxidation due to the presence of high levels of monounsaturates and polyunsaturates in the triglyceride structure.

- **Use of a specific polyalkylene glycol (PAG) architecture, triblock copolymer, dramatically improves the hydrolytic stability of vegetable oils and synthetic esters.**
- **These PAGs display a significant viscosity increase in the presence of water.**
- **The effectiveness of the triblock copolymers might be due to their ability to act as polymeric sponges to absorb and trap water in lubricant compositions.**

In a previous investigation, researchers blended a high-oleic canola oil with a polyalkylene glycol (PAG) [1]. Evaluation of the oxidation- and sludge-generation characteristics of this blend showed it to be superior to the canola oil. The polar PAG showed improved deposit control by helping to solubilize oxidation byproducts of the ester, thereby keeping the fluid cleaner and extending fluid life.

One other concern with using esters is hydrolytic stability. This vulnerability has become more apparent in the United States since the implementation of the Vessel General Permit (VGP) regulation by the US Environmental Protection Agency (EPA) in December 2013. VGP requires that environmentally acceptable lubricants be used in all applications where there is an interface between the lubricant and the sea. Further details on the regulation can be found in a recent article [2].

But contact between the lubricant and the sea can lead to premature failure due to hydrolysis. Martin Greaves, research leader at The Dow Chemical Co., Horgen, Switzerland, said, "Vegetable oils and synthetic esters are used in VGP applications, such as hydraulic fluids, gear lubricants, greases, and stern tube greases. We evaluated the hydrolytic stability of two vegetable oils (canola oil and sunflower oil) and three synthetic esters (estolide, saturated trimethylolpropane [TMP] ester and TMP trioleate) using a modified ASTM D2619."

In this procedure, the esters were heated for 48 hours at 93°C in the presence of 10% water and a copper coupon. An amine phosphate catalyst was added at 0.25% to artificially accelerate the hydrolysis.

Greaves said, "Without the catalyst, the esters were fairly stable and slow to hydrolyze. In practice, esters can oxidize to form acidic components (or there is free acid remaining from the ester manufacturing process), and it is this acid that we believe accelerates ester hydrolysis in the presence of water." The researchers measured hydrolysis by evaluating the increase in total acid number (TAN) for each ester. Results for the four esters showed TAN increases ranging from 2.5–8.0 milligrams of potassium hydroxide per gram of ester.

If an approach can be found to reduce the increase in TAN, then esters can more readily be used in water-sensitive applications such as marine lubricants. Such a strategy has now been developed.

PAG TRIBLOCK COPOLYMER

Greaves and his colleagues determined that addition of a specific PAG architecture up to a concentration of 10% in the vegetable oils and synthetic esters dramatically improves their hydrolytic stability. He said, "We decided to evaluate the use of PAGs because we know that PAGs are hygroscopic, but the water absorbed is latent water up to the polymer's saturation point. In other words, it is not 'free' water but bound by the polymer structure through what we believe are simple hydrogen bonds. Our hypothesis was that carefully designed PAGs may be able to trap 'free' water within the polymer structure and render it inert or latent."

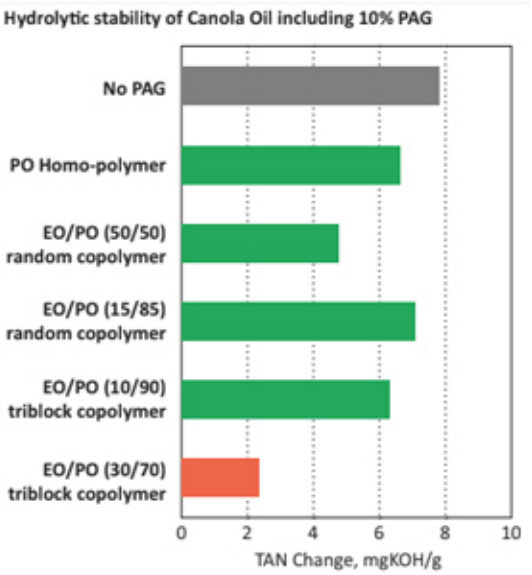
The researchers evaluated four types of PAG chemistries, including a homopolymer (polypropylene glycol monobutyl ether) and three types of copolymers (random, block, and reverse block). Although homopolymers and random copolymers are widely used in modern lubricants, blocks and reverse blocks are much less common and not so well researched. They found that an ethylene oxide/propylene oxide triblock copolymer improved the hydrolytic stability of the vegetable oils and synthetic esters by reducing the increase in TAN as shown from the ASTM D2619 test method.

For example, Figure 1 shows the improvement in hydrolytic stability for canola oil when treated with a triblock copolymer that has an ethylene oxide (EO), propylene oxide (PO) ratio of 30:70. A significant reduction in TAN increase is detected compared to a triblock copolymer with an EO:PO ratio of 10:90, two PAG random copolymers, and polypropylene glycol monobutyl ether.

The effectiveness of the triblock copolymer may be due, in part, to the unique rheology behavior of block PAG structures in the presence of water. For example, addition of water in random copolymers typically results in a viscosity decrease of the PAG, but some block structures show a significant viscosity increase. The oxyethylene block in the copolymer is believed to hydrate and swell via hydrogen bonds with water molecules.

Greaves said, "We believe the behavior of the triblock copolymers when exposed to water may enable them to act as polymeric sponges. This result makes the triblock copolymers candidates for trapping water in lubricant compositions. One other benefit is that the PAG triblock copolymers are readily biodegradable."

Future work will assess the performance of the triblock copolymers over a longer period of time. Greaves said, "We also intend to evaluate the effectiveness of triblock copolymers in field trials in an effort to validate the practical aspects of this invention." Additional information can be found from a presentation given at the 2017 Society of Tribologists and Lubrication Engineers (STLE) Annual Meeting [3] or by contacting Greaves at mrgreaves@ dow.com.



Neil Canter heads his own consulting company, Chemical Solutions, in Willow Grove, Pennsylvania, USA. He can be contacted at neilcanter@comcast.net. *Reprinted with permission from the October 2017 issue of TLT, the official monthly magazine of the Society of Tribologists and Lubrication Engineers, an international not-for-profit professional society headquartered in Chicago and dedicated to advancing the science of tribology and best practices in lubrication engineering.*

References

1. *Canter, N., "Upgrading biodegradable lubricant performance," TLT 65: 14–15, 2009.*
2. *Sniderman, D., "VGP 2013: propelling marine lubricants," TLT 73: 32–40, 2017.*
3. *Huffman, L. and M. Greaves, "Improving the hydrolytic stability of natural and synthetic esters using polyalkylene glycols," Presented at the STLE Annual Meeting in Atlanta, Georgia, USA, on May 22, 2017.*

This article was republished with permission from Inform magazine, issue date March 2018, pp. 23 - 25. The American Oil Chemists' Society (AOCS) is the leading scientific organization for professionals working with fats, oils, proteins, surfactants and related materials. AOCS members influence the fats and oils supply chain, from laboratory to field and product. Learn more at www.aocs.org

EVENTS

ISDC 2017

For Full Report on ISDC 2017 event

Logon to : www.ihpcia.org/pdf/isdc2017-coverage.pdf

2018 CCSPA 60TH ANNIVERSARY CONFERENCE

Orlando, Florida,

19 - 20 September, 2018

The Pillar and Post Inn, Niagara-on-the-Lake, Ontario, Canada

Organised by The Canadian Consumer Speciality Products Association

Fabric and Home Care – World Conference

Boca Raton Resort & Club, Florida, USA

28 - 31 October, 2018

The program will focus on the theme of Navigating Global Transformation.

CIMP 2018 and Clean China 2018

Zhuhai International Convention Center, China.

20 - 22 November, 2018

CIMP2018 (the 11thInternational Cosmetics, Personal Care & Detergent Expo 2018 -Ingredients, Equipment and Packaging)and Clean China 2018 (Zhuhai International Cleaning Expo)

ACI Annual Convention

Orlando, Florida, USA

28 January - 2 February 2, 2019

CESIO 11th World Surfactant Congress

Munich

3 - 5 June, 2019

The CESIO Congress takes place every four years and provides a unique opportunity to meet with all partners and contacts across the surfactants value chain.

BLOCK YOUR DATES

6th International Conference on Soaps, Detergents & Cosmetics (ISDC 2020)

Goa, India

6 - 8 December, 2020

IHPCIA Initiatives

Safe Use of Enzymes by Laundry Detergent Manufacturers–Recommendations from Regulatory Reforms and Standards Committee of IHPCIA

Regulatory and Standards Committee of IHPCIA have come out with recommendations of Self-regulatory guidelines to handle the enzymes by Home Care Industry, especially by the manufacturers of laundry detergents. Here are the details:

Background:

In an attempt to develop sustainable and green technology, the home care industry today is focusing on concentration, safe use and simple products. Consumers however do not want to compromise on performance and value for money. Therefore, the industry is exploring use of enzymes as a suitable performance enhancer in its products. Enzymes are important constituents of modern detergent products. They are proteins which catalyse chemical reactions. They break down soils and stains and thus achieve improved washing performance. However, we would like to draw your kind attention on below aspect of safety of handling of these enzymes, especially at the manufacturing / packing locations.

- Enzymes and especially the dust associated, can potentially cause respiratory diseases / allergies, asthma and other probable respiratory conditions in workers exposed to these ingredients. Such effects may be found when process or equipment controls are inadequate.
- Workers' health is getting compromised in absence of any guidance on safe handling of the enzymatic components.
- While there are efforts done to reduce dustiness, through granulation, changing products forms, effective equipment to reduce human exposure etc. they seem to be restricted to process and equipment controls.

Thus, there is a need to introduce guidance on recommended safe handling practices along with the process and equipment controls. This can be cascaded across the Industry as a measure to be taken in order to safeguard workers from the potential health hazard.

About AISE Guidelines:

Globally, the AISE (International Association of Soaps, Detergents and Maintenance products), which is based in Brussels, has been the voice of the Industry to EU regulators for over 65 years. AISE has developed a document which provides detailed guidance on procedures and equipment recommended to achieve safe handling of enzymes. The said document is intended for use by detergent manufacturing facilities and by third-party co- packers. The guidance document support both the enzyme manufacturers/importers as well as the detergent manufactures so that they can have adequate control over risks of enzymes.

A careful study of the guidelines shows that, even though it is a detailed guidelines it has basic requirements mentioned, which are necessary to ensure the safe use of enzymes in detergent factories.

The AISE guideline covers the following aspects in detail and are equally significant for the
Indian detergent industry:

- Setting of Occupational exposure guidelines for enzymes within detergent Industry
- Management and Supervision
- Control of enzymes during handling and manufacture of detergents
- Performance assessment of equipment and behavior
- Routine Air monitoring program
- Health Surveillance
- Monitoring and performance assessment follow up
- Analytical procedures
- Auditing Enzyme operations

Our Proposal:

We propose, in the absence of any mandatory regulation in India so far, AISE guidelines can be adopted by the members as a self-regulated mechanism. This will also help us oppose any ad hoc or unscientific regulations that may be made by regulatory agencies in absence of any self – regulatory mechanism.

For the detailed as well as summarized version of AISE guidelines please log on to: **http://www.ihpcia.org/pdf/Safe-Use-Enzymes.pdf**

We request you to kindly go through them and take the guidelines forward for adoption by IHPCIA members.

Regulatory Reforms and Standards Committee
IHPCIA

IHPCIA initiative on Concentrated Laundry Detergents in Water Soluble Film – Monodose Pouch for Home Care

Industry Vision–Harmony with Nature

1

Save Water

Save Energy

Save CO2

Save Packaging

Sustainable Consumption and Production and the Role of Green Products in India

Actions needed (non technological) to improve the sustainability profile of the industry

- Sustainability marketing strategies should aim towards improving the awareness of
- Consumers to use the product in an informed / sustainable way
- Existing Mechanisms such as Eco labels and safe use tips provided on the pack are confusing consumers believe that there is insufficient or too much information provided
- Monodose is the sustainable option.

Need for standardisation

Tips for saving water, energy, co2 and money

Need for Sustainability in the Industry

- Rapid global population growth
- The rise in middle and lower-income consumers
- A culture of "consumerism"

- Global consumption pattern is putting unsustainable and increasing stress on:
- The Earth's ecosystems - The supply of material resources needed for industrial growth
- Human social systems and well-being

Drivers

Global Consumption Patterns

Impacts

Consumers
Awareness and concern
Consumer Willingness

Sustainable production

Sustainable Consumption

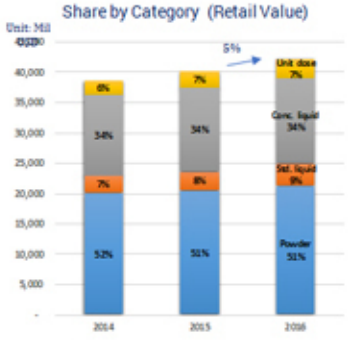
Businesses
Innovation (improved products and services)
Choice influencing
Choice editing

Why Monodose?

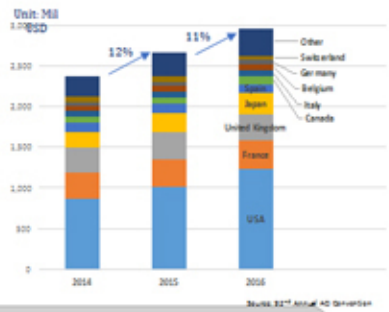
- ✓ Precise dosing *(no over- or under-dosing)*
- ✓ Consumer convenience *(no measuring, easy to use)*
- ✓ Separation of ingredients via multi-compartment designs

Global Laundry Market

Share by Category (Retail Value)



Unit Dose by Country (Retail Value)



- Global SUD market rapidly growing: 21% CAGR (2012-2016)
- Monodose market growing at 11% (vs. 5% for overall detergent) in 2016
- Potential for geographic expansion in India by leap of technology

YOUR NETWORK – YOUR VOICE

The Indian Home & Personal Care Industry Association (IHPCIA) is a non-profit organization under Section 25 of the Companies Act 1956. The Association represents the **Home & Personal Care (HPC)** industry and provides a platform for National & International networking and interaction with regulatory bodies. The Association is committed to developing solutions for healthy living and quality lifestyle and aims to be the voice & network of the industry.

IHPCIA has a Board of Directors and following Committees:

1. Policy and Planning
2. Regulatory Reforms & Standard
3. Membership & Resource Mobilisation
4. Programs, Education & Communication

OUR OBJECTIVES

Represent the interests of the members from Home-care, Personal care and allied industries.

- To promote trade & commerce, science & technology, consumer awareness and education in the areas of Home-care and Personal-care.
- To represent and make known members point of view and interests of Home- care, Personal –care and allied industries before governmental and quasi governmental authorities, trade and industrial bodies, chambers of commerce, scientific bodies, educational institutes and other organizations.
- To create a platform to facilitate co-ordination, co-operation, exchange of views and ideas and sharing of knowledge amongst the Association members and similar International Associations.
- To act as the certifying and approval body for national and international testing procedures.
- To provide education, information and training to the members for improving health, hygiene and safety.
- To interact and network with national & international associations, organizations and bodies connected with Home & Personal Care Industries.

Members of the Association

Cavinkare Pvt. Ltd.

Godrej Industries Ltd.

Hindustan Unilever Ltd.

ITC Limited

RSPL Limited

Nirma Limited

Procter & Gamble

S.H. Kelkar

Milindia Ltd.

Aarti Industries Ltd

Trivedi Group

Safechem Industries

Galaxy Surfactants

Fena Pvt. Ltd.

Patanjali Ayurved Limited

Indian Oil Corporation

ECOF Industries Ltd.

McNROE Consumer Products Private Limited

Novozymes

Emami Limited

Kumar Organic Products Limited

Sealed Air

Reliance Industries Ltd.

ARDOR International Ltd.

Aditya Finechem Limited

Ultramarine & Pigments Ltd.

Affiliate Industry Associates

Tamilnadu Small Scale Soap & Detergent Manufacturers Association

Gujarat Small Scale Detergent Manufacturers Association

Fragrances & Flavours Association of India

Bengal Soap & Detergent Manufacturers' Welfare Association

Maharashtra Soaps, Detergent & Cosmetic Manufacturers Association

Ahilya Surfactants Manufacturing Association

Indian Society of Cosmetic Chemists

BECOME A MEMBER

Founder Member

Any corporation, partnership or other type of business entity which is engaged in the business of manufacturing, processing, packaging, marketing or servicing of Industry Products and is invited to be a member, is prima facie eligible for membership as a Founder Member subject to the payment of applicable founder membership fees. Founder member will enjoy all the privileges of Members and shall have the rights to vote at general meetings.

Life Member

Any corporation, partnership or other type of business entity which is engaged in the business of manufacturing, processing, packaging, marketing or servicing including providing support services, such as logistics, chemical analysis, raw material & packing materials, databasing, computing, financial, technical consulting or legal counsel, to the Industry, and is prima facie eligible for membership as a Life Member subject to the payment of applicable life membership fees. Life member will enjoy all the privileges of Members and shall have the rights to vote at general meetings.

Annual Member

Any corporation, partnership or other type of business entity which is engaged in the business of manufacturing, processing, packaging, marketing or servicing of Industry Products, is prima facie eligible for membership as an Annual Member subject to the payment of applicable annual membership fees. Annual Members will enjoy all the privileges of Members, and shall have the rights to vote at general meetings.

Affiliate Industry Association Member

Any Industry Association whose members are in the business of manufacturing, processing, packaging, marketing or servicing of home & personal care Industry Products and is invited and prima facie eligible for membership as an Affiliate Industry Association Member. The Affiliate Industry Association Member is not subject to membership fees and will not have rights to vote at general meetings. Membership of Affiliate Industry Association will be subject to Board of Directors approval.

Honorary Member

Any individual who has rendered distinguished service to the Association and is invited to be honorary member provided that the name of such distinguished service of the person made known in writing by the Secretary and membership will be subject to approval by the Board of Directors.

- Reached the age of 50 years
- Retired from the Industry and
- Held office in the Association or in the Industry for a period of at least 5 years or for such other period as may be specified by the Board of Directors.

Honorary Member will enjoy all the privileges of members, however, the membership is not subject to membership fees and Honorary Member will not have the rights to vote at general meetings.

International & Regional Associates

IHPCIA is the member of the **International Network of Cleaning Product Association** (INCPA) and **Regional Asia Oceania Soap and Detergents Association Committee** (AOSDAC).

INCPA Members

accord
hygenic, cosmetic & speciality products industry

A·I·S·E

Japan Soap and Detergent Association

CANIPEC

ABIPLA

CSPA

aci american cleaning institute®
for better living

CCSPA

AOSDAC Members

accord
hygenic, cosmetic & speciality products industry

T.S.D.A.

中国洗涤用品工业协会
China Cleaning Industry Association

TSDMA
The Soap and Detergents Manufacturers Association

ISDA
Indonesian Soap and Detergents Association

MSDA
Malaysian Soap and Detergents Association

The Membership Fees (as of 30th September, 2017)

STRUCTURE (IN INR)					
(A)	**Founder Member**	5,00,000			
(B)	**Life Member** (By Invitation)	**Large Industry**	**Medium Industry**	**Small Industry**	**Micro Industry**
	Member (Manufacturing)	2,50,000	1,50,000	75,000	50,000
	Associate Member (Service Provider)	2,00,000	1,00,000	50,000	35,000
(C)	**Annual Member**	**Large Industry**	**Medium Industry**	**Small Industry**	**Micro Industry**
	Annual Member (manufacturing)	50,000	30,000	15,000	10,000
	Annual Member (service provider)	40,000	20,000	10,000	7,000
(D)	**Affiliate Industry Association Member** (by invitation)	Nil			
(E)	**Honorary Member** (by invitation)	Nil			

Admisitrative Fees as on 01-04-2018								
	Category	Industry Type	Membership Fees	GST @18%	*Total Membership Fees (Inclusive of taxes)	Quarterly Administrative Charges	GST @18%	Total Quarterly Administrative Charges
			Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)
	FOUNDER MEMBER							
	Founder	All	500,000	90,000	590,000	25,000	4,500	29,500
	LIFE MEMBER							
[A]	**Member [manufacturing]**	Large	250,000	45,000	295,000	20,000	3,600	23,600
	Member [manufacturing]	Medium	150,000	27,000	177,000	10,000	1,800	11,800
	Member [manufacturing]	Small	75,000	13,500	88,500	5,000	900	5,900
	Member [manufacturing]	Micro	50,000	9,000	59,000	2,500	450	2,950
[B]	**Associate Members (service provider)**	Large	200,000	36,000	590000	15,000	900	29,500
	Associate Members (service provider)	Medium	100,000	18,000	590000	7,500	900	29,500
	Associate Members (service provider)	Small	50,000	9,000	590,000	3,000	540	3,540
	Associate Members (service provider)	Micro	35,000	6,300	41,300	1500	270	1,770
	***the above Membership Fee includes as on date applicable Tax, may change as per Government Policies**							

Note:

* All figures are in INR.
* In addition to Membership fee, Administration fee is applicable for Founder members and Life members.
* Membership fees and administration fees are non-refundable.
* All the fees are subject to applicable taxes.
* Large Industry: Annual turnover above INR 25 Crore.
* Medium Industry: Annual turnover above INR 5 Crore upto 25 Crore.
* Small Industry: Annual turnover above INR 25 Lakh upto INR 5 Crore.
* Micro Industry: Annual turnover upto INR 25 Lakh.

Registered Office
401, Onyx, 4th floor, 375 S. V. Road, Goregaon, (W) Mumbai - 400104, INDIA.
Phone : +91 22 2877 1857 Fax : +91-22-28789755 Email : ihpcia@ihpcia.org

Secretariat
Shiv Anand-A, 1st Floor, 372/374, S.V. Road, Goregaon (West), Mumbai - 400104, India.
Phone : +91 22 2877 1857 Fax : +91-22-28741366 Email : ihpcia@ihpcia.org
Contact: Krutika: +91 9029088219 / Pankaj Dutia: +91 9819113510
Website: www.ihpcia.org

C3 Science

Chemistry, Cleaning and Care

Have your presence in C3 Science magazine. Book your space in forthcoming issues.

Advertisement Details & Tariffs

I / We would like to place an advertisement in the C3 Science - Quarterly E-Newsletter

- ☐ Front Inside Cover - Colour (INR 25,000/-)
- ☐ Full Page - Colour (INR 12,500/-)
- ☐ Back Inside - Colour (INR 20,000/-)
- ☐ Half Page - Colour (INR 8,000/-)
- ☐ Back Outside - Colour (INR 35,000/-)

Annual Advertisement Subscription: 15% discount will be applicable if advertisement for all 3 quarter for FY 2018 booked in advance.

*Note: GST@18% extra

The advertisement matter is enclosed in the form of / will be sent -

☐ CDR ☐ .MP4 / .FLV ☐ Others Specify :_____

Note: Most preferred format: Corel format (CDR) along with fonts.

Payment:

1. By Cheque / DD

In favour of 'Indian Home & Personal Care Industry Association', payable at Mumbai, India

2. By Money Transfer

Company Name	**Indian Home & Personal Care Industry Association**	
Bank Name	Kotak Mahindra Bank	State Bank of India
Branch	Goregaon - West	Goregaon - East
Account No	3111230458	31755539974
IFSC/RTGS Code	KKBK0000643	SBIN0012521
Swift Code	KKBKINBB	SBININBB518

*Please note that Bank Draft / Cheque must be sent together with the Advertisement form.

Payment Details

Cheque / DD No.: Date: Bank Name & Branch:

For Enquiries:

IHPCIA - Secretariat

Shiv Anand - A, 372/374,

S.V. Road, Goregaon (West),

Mumbai - 400 104, INDIA

Tel: +91 22 228771857; Fax: +91 22 28741366

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Email: ihpcia@ihpcia.org /pankaj@ihpcia.org/ krutika@ihpcia.org/amit@ihcpia.org

Website: www.ihpcia.org