COVID-19: DKSH brochure 2020

For Household care and Industrial & Institutional Industry
India

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COVID-19 – Household care and I&I solutions

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COVID-19 – Household care and I&I solutions

• Surfactants
• Spray adjunct
• Disinfectants
• Disinfectant wipes
• Fabric softener sanitizer
• Hand sanitizer solutions
• Hand wash solutions
COVID-19 – Household and I&I care trends

• Increasing focus on safety, health & sanitation drives demand for surface disinfectants
• Essential role of surface disinfection in addressing resistance to antimicrobial agents
• Antimicrobials, antiseptics and disinfectants
• Aerosol based disinfectants and deodorizers
• Rising significance of keeping hands and surfaces clean accelerates adoption of disinfecting and cleaning wipes
• QUAT-based disinfectants
• Environmental friendly disinfectants
COVID-19 – Household & I&I products trends in high demand

- Disinfectant floor cleaners
- Multi surface disinfectant
- Sanitizing spray
- Disinfectant laundry sanitizer
- Food contact surface sanitizers
- Disinfecting wipes
- Multipurpose cleaner
- Bathroom cleaner
- Air sanitizing spray
- Hand wash
- Hand sanitizers
Ammonyx LMDO
- Viscosity Booster
- Foam enhancer/Stabilizer
- Dishwash foam mileage extender
- Effective on greasy soils
- Hydrogen peroxide stable
- Can be formulated with anionic, non ionic and cationic surfactants
- For all purpose, dishwash I&I cleaners and hand wash
- Dosage – 2.0- 5.0 %

Ammonyx LO – A
- Fast wetting agent
- Good soil removal effect
- It can be used over a wide pH range
- Foam enhance, viscosity builder and stabilizer
- Acts as a emulsifier, degreaser
- Compatible with all types of surfactants
- Applications – Hard surface, industrial, textile cleaning
- Dosage – 2.0 -15.0 %

Both amine oxides have good compatibility with almost all types of disinfectant actives & doesn’t affect the disinfecting efficacy in products.
COVID-19 – Low foaming surfactants

Makon NF 5 & NF 12
- Biodegradable nonionic surfactant exhibits low foaming properties
- Readily formulated into highly alkaline built liquid systems
- Resist foam development even under extreme or prolonged agitation
- they are completely non-foaming above 25°C
- **Applications** – In mechanical dishwashing, rinse aids, metal cleaning, spray washing, general purpose cleaning, emulsion polymerization, textile wetting and scouring, oil field additives, agricultural adjuvant and non-foaming emulsions
- **Dosage** – 1.0 – 10.0 %
COVID-19 – Surfactant with good emulsifying

Biosoft N 91 – 8
• High active non-ionic surfactants
• Stable both aqueous acidic and alkaline solutions
• Useful in oil-based systems
• Compatible with all types of surfactants & no. of solvents

End product uses
• Laundry products
• Hard surface cleaners
• All-purpose cleaners
• I&I cleaners
• Textiles

Dosage – 1.0 – 7.0 %
COVID-19 – Spray adjunct for home care and I&I products

Wacker L099

- Silicone spray adjunct
- Super spreading surfactant based on ethoxylated trisiloxane technology
- It lowers the surface tension of spray solutions, which allows it to wet and spread effectively on nearly any hydrophobic surface
- Nonionic in nature, the contact angle of spray solutions on leaf surfaces is reduced, leading to an increase in spray coverage
- Usage – 0.025 – 0.15 %
COVID-19 – Disinfectants actives (DA)

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COVID-19 – BTC range disinfectants

BTC 2125 – 80 %
- ADBAC/ADEBAC
- % Active: 80
- 3rd generation of quaternary compounds
- Excellent hard water tolerance
- Provides a broad spectrum of bacteriological control at an economical cost.

**Applications:** Floor cleaners, general purpose disinfectants, deodorizers
COVID-19 – BTC range disinfectants

BTC 1010 - 80 %
- DDAC
- Fourth Generation Quaternary Ammonium Compound
- % Active : 80
- Superior in germicidal activity, have a high tolerance to protein loads and hard water with toxicity

Applications : Direct food contact Surfaces and where enhanced cleaning is required along with disinfection.
COVID-19 – BTC range disinfectants

**BTC 818 – 80 %**
- Di-n-ODAC/n- octyl DDAC/Di-n-DDAC
- 5th generation
- %Active: 80
- Lower toxicity
- Better efficacy
- Higher hard water tolerance

**Applications**
- Direct Food Surface contact applications
- Laundry Sanitizers
COVID-19 – Disinfectant for Aerosols

ONYXIDE® 3300

- n-ALKYL DIMETHYL BENZYL AMMONIUM SACCHARINATE
- Product is registered as a biocide due to its unique saccharinate counterion.
- Prevents corrosivity associated with the chloride counterion in traditional biocides
- Has very limited water solubility (<0.01%) but larger quantities can be solubilized in water with the addition of other surfactants and solvents

Applications: Aerosol based Disinfectants and Deodorizers
## BTC typical use concentrations

<table>
<thead>
<tr>
<th>Application</th>
<th>ppm (Active ingredient)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Surface Disinfectant</td>
<td>450–850</td>
</tr>
<tr>
<td>Hard Surface Sanitizer</td>
<td>150–200</td>
</tr>
<tr>
<td>Food Processing Equipment</td>
<td>200</td>
</tr>
<tr>
<td>Sanitizer</td>
<td>–</td>
</tr>
<tr>
<td>Eating Utensil Sanitizer</td>
<td>200</td>
</tr>
<tr>
<td>Fabric Sanitizer</td>
<td>250–300</td>
</tr>
</tbody>
</table>

Contact time can be reduced by increasing the concentration of BTC.
Cleaning and sanitization have been top of mind for everyone during the COVID-19 pandemic. Coronavirus germs can live on some surfaces for up to 3 days. While there is no fool-proof method of prevention, there are some ways that you can better protect yourself and loved ones from potentially becoming infected, like routinely disinfecting commonly touched household surfaces and objects that you bring into your home by using disinfectant wipes for different applications to remove germs, bacteria, kitchen grease and countless other nasties you find lurking in your home.
COVID-19 – Fabric softener sanitizer solutions

• Liquid laundry softener provide excellent softening to fabrics, makes the cloth easier to iron and by introducing BTC disinfectant in the formulation it also acts a sanitizer and inhibits the growth of micro-organisms.

• This product is to be use in final rinse. At this stage, product provides to the fabric a residual self sanitizing activity against the micro – organisms under conditions of high relative humidity or wet contamination.
Stepantex SP – 90

- **INCI** - Dialkylester Ammonium Methosulfate
- Cationic surfactant ideal for producing fabric softeners and textile softening
- Most environmental-friendly fabric softener chemistry i.e. readily biodegradable
- 81% Naturally derived
- Good softening, good re-wetting, static control and non-yellowing
- Can be used in household and institutional products
- Use from solids ranging from 3 – 20 %

SLM FC 3021

- Microemulsion of an Silicone polyquaternium compound
- Silicones with esterquats boost up the performance of a fabric softener & gets softer and pleasant touch
- Easy to mix in formulation
- Silicones with their extremely low fibre-fibre friction provides a velvet like silky softness & improves ironing property
- With Silicones, the hydrophilic property of the fabric can be increased
COVID-19 – Hand care solutions
### COVID-19 – Rheology modifiers for hand sanitizers

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
</table>
| WeylCare ATBS – Ammonium polyacryloyldimethyl taurate | 1. Forms homogeneous, almost transparent gels with water  
2. Stable viscosity profile from pH 3.5–9.0  
3. Excellent sensory feel, silky, light, cool and non-sticky  
4. Ready to use & Cold-processable  
5. Dosage 0.3 – 1.0 % w/w |
| Benecel K 100 – Hydroxy propyl methyl cellulose      | 1. Nature derived rheology modifier  
2. Enhances sensory experience  
3. Compatible with ethanol based formulations  
4. Ready to use  
5. Used in hand washes  
6. Dosage 0.6 – 0.8 % w/w |
| Carbomer 980 - Carbomer | 1. Cross-linked polymer of acrylic acid that is a useful thickening, stabilizing and suspending agent  
2. Extremely efficient thickeners and powerful stabilizers at low concentrations in water and aqueous ethanol  
3. Effective across a wide pH range of 5 to 10  
4. Dosage 0.2 – 0.5 % w/w |

All the products has good compatibility with ethanol in Hand sanitizer application.
Sensorial ingredients for alcohol based hand sanitizers

Belsil PQ 917 - PEG – 8 Silicone Quaternium 17 (and) Butoxyethanol

Belsil PQ 980 - Quaternium 80 (and) Butoxyethanol

Properties

• Good moisture retention & excellent improvement in skin smoothness
• It interacts with skin proteins provide refatting effect that provide hands becomes more soft & supple
• Skin barrier protection
• Dosage – 0.3 to 0.5 %
COVID-19 – Rheology modifier for hand wash

**Natrasol 250 HHR**

- Hydroxy ethyl cellulose
- Non–ionic water soluble polymer derived from cellulose
- Viscosity range is 3400 – 5000 cps at 1% concentration
- Natrosol™ HEC is easily dissolved in cold or hot water to give crystal clear solutions
- Products with HEC dispense rich and thick from the container
- Goes in wide range of products & it has good results in hand wash
- Dosage – 0.2 – 1.0 %

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COVID-19 – DKSH product solutions for damage effects in hand wash

**MG 60 – Maltooligosyl glucoside and hydrogenated starch hydrolysate**
- Imparts smooth skin texture for delicate and sensitive skin
- Protects skin against irritation, Anti inflammatory and moisture retention
- Improves foam richness in cleansing products
- Dosage – 2.0 -5.0 %

**Belsil 5512 HP – PEG7 amodimethicone, benetrimonium chloride and cyclodextrin**
- Reduces slimy skin feel after rinsing
- Gives skin moisturizing and conditioning
- Increases skin smoothness and elasticity
- Increases perfume retention on skin
- Dosage – 0.5 – 1.0 %

**Sabosol PGO – Coco - glucoside and glyceryl oleate**
- Lipid layer enhancer for cleansing preparations and supports moisturization
- Softening & conditioning the skin
- Natural thickener for liquid soaps
- For sensitive skin types
- Dosage – 1.0 -5.0 %

**Lathanol LAL – Sodium lauryl sulfoacetate**
- Cleansing powder form anionic surfactant
- Very mild to the skin
- Excellent viscosity builder
- Provides creamy rich leather
- Moisturized after feel
- Dosage – 2.0 -12.0 %
Thank you for your attention

Contact us

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