Safety Data Sheet
SCALEOFF GEL

Safety Data Sheet dated 22/3/2017, version 2
In compliance with Regulation (EC) 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Mixture identification:
Trade name: SCALEOFF GEL
Product type: SCENTED SANITIZING DESCALER GEL

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Washing and cleaning products (including solvent based products)
Uses advised against:
Corrosive in contact with metals

1.3. Details of the supplier of the safety data sheet
Supplier:
AirChem Consumables, LOB 10, Office # 10F14, JAFZA, Dubai, UAE- Tel: +971-4-881 8084, Fax: +971-4-881 6022, Email: airacc@acc.ae
Competent person responsible for the safety data sheet:
airacc@acc.ae

1.4. Emergency telephone number
AirChem Consumables, Tel: +971-4-881 8084, Fax: +971-4-881 6022, Email: airacc@acc.ae (from Sunday to Thursday from 09 AM to 6 PM; Saturdays 09 AM to 2:30 PM)

A list of Poison Control Centers is available at the following link:
http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
Danger, Eye Dam. 1, Causes serious eye damage.

EC regulation criteria 1272/2008 (CLP)
Hazard pictograms:

Danger
Hazard statements:
H314 Causes severe skin burns and eye damage.
Precautionary statements:
P280 Wear protective gloves/clothing and eye/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P501 Dispose of contents/container in accordance with applicable regulations.
Special Provisions:
None
Contains
Fhosphoric acid
2,2'-(octadec-9-en-1-ylimino)diethanol

Special provisions according to Annex XVII of REACH and subsequent amendments:
None

Declaration of ingredients according to Detergent Regulation 648/2004:

phosphates	5 - 15 %
non-ionic surfactants	< 5 %

The product also contains: Perfumes

2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable
3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:
5-10 % Fhosphoric acid
Index number: 015-011-00-6, CAS: 7664-38-2, EC: 231-633-2
3.2/1B Skin Corr. 1B H314
3.3/1 Eye Dam. 1 H318
2.16/1 Met. Corr. 1 H290

1-5 % 2,2'-(octadec-9-en-1-ylimino)diethanol
CAS: 25307-17-9, EC: 246-807-3
3.1/4/Oral Acute Tox. 4 H302
3.2/1B Skin Corr. 1B H314
4.1/A1 Aquatic Acute 1 H400

0.1-1 % Ethanol, 2,2'-iminobis-, N-tallow alkyl derivatives
CAS: 61791-44-4, EC: 263-177-5
3.1/4/Oral Acute Tox. 4 H302
3.2/1B Skin Corr. 1B H314
4.1/A1 Aquatic Acute 1 H400

0.1-1 % Enylamine, ethoxylated
CAS: 26635-93-8, EC: 500-048-7
3.1/4/Oral Acute Tox. 4 H302
3.3/1 Eye Dam. 1 H318
4.1/A1 Aquatic Acute 1 H400

0.1-1 % 1-methoxy-2-propanol
REACH N°: 01-2119457435-35-XXXX, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1
2.6/3 Flam. Liq. 3 H226
3.8/3 STOT SE 3 H336

<0.1% Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
CAS: 68424-85-1, EC: 270-325-2
3.3/1 Eye Dam. 1 H318
4.1/C1 Aquatic Chronic 1 H410 M=1.
3.1/4/Oral Acute Tox. 4 H302
3.2/1B Skin Corr. 1B H314
4.1/A1 Aquatic Acute 1 H400 M=10.

For the complete text of the hazard and risk phrases refer to paragraph 16

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Immediately take off all contaminated clothing.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.
In case of eyes contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.
In case of Ingestion:
Do NOT induce vomiting.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
4.2. Most important symptoms and effects, both acute and delayed
None
4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Water.
Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons:
None in particular.
5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

For more information see Technical date bulletin
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contained substances

Fhosphoric acid - CAS: 7664-38-2

EU - TWA mg/m3(8h): 1 - LTE ppm: 0.25 - STEL mg/m3(15min): 2 - STE ppm: 0.75 - Behaviour: Binding
ACGIH - TWA mg/m3(8h): 1 - STEL mg/m3(15min): 3 - Behaviour: Binding - Critical effects: Skin and eye irritation Respiratory.
NIOSH - TWA mg/m3(10h): 1 - STEL mg/m3(15min): 3 - Behaviour: Binding
OSHA - TWA mg/m3(8h): 1 - STEL mg/m3(15min): 3 - Behaviour: Binding

1-methoxy-2-propanol - CAS: 107-98-2

EU - TWA mg/m3(8h): 375 - LTE ppm: 100 - STEL mg/m3(15min): 568 - STE ppm: 150 - Behaviour: Binding - Critical effects: Skin
ACGIH - TWA mg/m3(8h): 184 - LTE ppm: 50 - STEL mg/m3(15min): 368 - STE ppm: 100 - Behaviour: Binding - Notes: A4 - Critical effects:Eye irritation and upper respiratory tract

DNEL Exposure Limit Values

Fhosphoric acid - CAS: 7664-38-2

Worker Professional: 2.92 mg/m3 - Consumer: 0.73 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 1 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 2 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects

2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9

Worker Professional: 0.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 1.76 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

1-methoxy-2-propanol - CAS: 107-98-2

Worker Professional: 369 mg/m3 - Consumer: 43.9 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 553.5 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 183 mg/kg - Consumer: 78 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 33 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1

Consumer: 3.4 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 3.96 mg/m3 - Consumer: 1.64 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 5.7 mg/kg - Consumer: 3.4 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9

Target: Fresh Water - Value: 0.000214 mg/l
Target: Marine water - Value: 0.000021 mg/l
Target: Microorganisms in sewage treatments - Value: 1.5 mg/l
Target: Freshwater sediments - Value: 0.0171 mg/kg
Target: Marine water sediments - Value: 0.0171 mg/kg
Target: Soil - Value: 5 mg/kg

1-methoxy-2-propanol - CAS: 107-98-2

Target: Occasional issue - Value: 100 mg/l
Target: Freshwater sediments - Value: 52.3 mg/l
Target: Marine water sediments - Value: 5.2 mg/kg
Target: Soil - Value: 459 mg/kg
Target: Fresh Water - Value: 10 mg/l
Target: Marine water - Value: 1 mg/l
Target: Sewerage treatment plants - Value: 100 mg/l

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1

Target: Marine water - Value: 0.00096 mg/l
Target: Fresh Water - Value: 0.0009 mg/l
Target: Occasional issue - Value: 0.00016 mg/l
Target: Marine water sediments - Value: 13.09 mg/kg
Target: Freshwater sediments - Value: 12.27 mg/kg
Target: Soil - Value: 7 mg/kg
Target: Sewerage treatment plants - Value: 0.4 mg/l

8.2. Exposure controls

Eye protection:
Use close fitting safety goggles, don't use eye lens.
Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory protection:
Not needed for normal use.
Thermal Hazards:
None
Environmental exposure controls:
None

Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Gel Clear green scented	--	--
Odour:	Pine green	--	--
Odour threshold:	n.av. mg/m3	--	--
pH:	1	--	--
Melting point / freezing point:	initial 0 °C	--	--
Initial boiling point and boiling range:	initial 100 °C	--	--
Flash point:	>60 °C	--	--
Evaporation rate:	na	--	--
Solid/gas flammability:	na	--	--
Upper/lower flammability or explosive limits:	n.av. % v/v	--	--

Vapour pressure:	3.2 kPa	--	--
Vapour density (air=1):	> 1	--	--
Relative density:	1.0 g/ml	--	--
Solubility in water:	Complete	--	--
Solubility in oil:	na	--	--
Partition coefficient (n-octanol/ water):	n.av.	--	--
Auto-ignition temperature:	n.av. °C	--	--
Decomposition temperature:	n.av. °C	--	--
Viscosity:	>500 mPa.s	--	25°C
Explosive properties:	Not explosive	--	--
Oxidizing properties:	Not Oxidant	--	--

9.2. Other information

Properties	**Value**	**Method:**	**Notes:**
Miscibility:	Complete in water	--	--
Fat Solubility:	na	--	--
Conductivity:	n.av.	--	--
Substance Groups relevant properties:	n.av.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
It may generate flammable gases on contact with dithiocarbamates, mercaptans and other organic sulphides, elementary metals (alkalis, alkaline earth, powder alloys, vapours), and powerful reducing agents.
It may generate toxic gases on contact with inorganic fluorides, halogenated organic substances, sulphides, nitrides, nitriles, organophosphates, and powerful oxidising agents.
It may catch fire on contact with dithiocarbamates, elementary metals (alkali, alkaline earth, powder alloys, vapours, sheets or bars), and nitrides.
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological information of the product:
Not applicable
Toxicological information of the main substances found in the product:
Fhosphoric acid - CAS: 7664-38-2
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 1250 - U.M.: mg/kg
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 2600 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rabbit - Op.: = - Value: 2740 - U.M.: mg/kg
Test: LC50 - Route: Inhalation - Species: Rat - Op.: = - Value: 850 - U.M.: mg/l - Duration: 2 hours
Type: b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit - Op.: = - Value: 595 - U.M.: mg/kg - Duration: 24 hours
Type: c) serious eye damage/irritation:
Test: Eye Irritant - Route: EYES - Species: Rabbit - Op.: = - Value: 119 - U.M.: mg/kg
2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9
Type: a) acute toxicity:
Test: LD50 - Route: Inhalation Vapour - Species: Rat - Op.: = - Value: 1 - U.M.: mg/kg
Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 300 - U.M.: mg/kg
Test: LD50 - Route: Oral - Species: Rat - Op.: < - Value: 2000 - U.M.: mg/kg
Type: b) skin corrosion/irritation:
Test: Skin Corrosive - Route: Skin - Species: Rabbit - Op.: Positive - Duration: 4 hours
Type: c) serious eye damage/irritation:
Test: Eye Irritant - Route: EYES - Species: Rabbit - Op.: Positive
Enylamine, ethoxylated - CAS: 26635-93-8
Type: a) acute toxicity:
Test: LD50 - Route: Inhalation Vapour - Species: Rat - Op.: > - Value: 2000 - U.M.: mg/kg
Type: c) serious eye damage/irritation:
Test: Eye Irritant - Route: EYES - Species: Rabbit - Op.: Positive
Type: j) aspiration hazard:
Test: Respiratory Tract Irritant - Route: Inhalation - Op.: Positive
1-methoxy-2-propanol - CAS: 107-98-2
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 5000 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rabbit - Op.: > - Value: 15800 - U.M.: mg/kg
Test: LD50 - Route: Oral - Species: Mouse - Op.: = - Value: 11700 - U.M.: mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat - Op.: > - Value: 25.5 - U.M.: mg/l - Duration: 4 hours
Type: b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Op.: Positive
Test: Eye Irritant - Route: EYES - Op.: Positive
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1
Type: a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 397.5 - U.M.: mg/kg
Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 426 - U.M.: mg/kg
Test: LD50 - Route: Oral - Species: Mouse - Op.: = - Value: 919 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rat - Op.: > - Value: 800 - U.M.: mg/kg
Test: LD50 - Route: Skin - Species: Rabbit - Op.: = - Value: 3412 - U.M.: mg/kg
Type: b) skin corrosion/irritation:
Test: Eye Corrosive - Route: EYES - Species: Rabbit - Op.: Positive
Test: Skin Corrosive - Route: Skin - Species: Rat - Op.: Positive

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:
a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Based on the information available it is not expected that this product may cause any adverse environmental effect when use instructions and disposal recommendations are followed.
Adopt good working practices, so that the product is not released into the environment.
List of substances hazardous to the environment and eco-toxicological information available:
Fhosphoric acid - CAS: 7664-38-2
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 138 - U.M.: mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 72
2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.39 - U.M.: mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 96 - Notes: Carassius auratus
Endpoint: EC50 - Species: Daphnia - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 72
Enylamine, ethoxylated - CAS: 26635-93-8
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.39 - U.M.: mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia

1-methoxy-2-propanol - CAS: 107-98-2
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 20800 - U.M.: mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: LC50 - Species: Fish - Op.: = - Value: 6812 - U.M.: mg/l - Duration h: 96 - Notes: Leuciscus idus
Endpoint: LC50 - Species: Fish - Op.: > - Value: 1000 - U.M.: mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss
Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 21100 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC50 - Species: Algae - Op.: > - Value: 1000 - U.M.: mg/l - Duration h: 168 - Notes: Selenastrum capricormutum
Type: c) Bacteria toxicity:
Endpoint: EC50 - Species: Bacteria - Op.: > - Value: 1000 - U.M.: mg/l - Duration h: 3 - Notes: Fango attivo domestico
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1
Type: a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.515 - U.M.: mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish - Op.: = - Value: 0.85 - U.M.: mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 0.016 - U.M.: mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC50 - Species: Daphnia - Op.: = - Value: 0.02 - U.M.: mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae - Op.: = - Value: 0.06 - U.M.: mg/l - Duration h: 96 - Notes: Selenastrum capricornum
Endpoint: IC50 - Species: Algae - Op.: = - Value: 0.03 - U.M.: mg/l
Endpoint: IC50 - Species: Algae - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 72
Endpoint: IC50 - Species: Bacteria - Op.: = - Value: 11 - U.M.: mg/l - Duration h: 0.5
Type: b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae - Op.: = - Value: 0.009 - U.M.: mg/l

12.2. Persistence and degradability
2,2'-(octadec-9-en-1-ylimino)diethanol - CAS: 25307-17-9
Biodegradability: Not persistent and Biodegradable - Test: Dissolved oxygen - Duration: Not applicable - %: 60 - Notes: Not applicable
Enylamine, ethoxylated - CAS: 26635-93-8
Biodegradability: Readily biodegradable - Test: Not applicable - Duration: Not applicable - %: Not applicable - Notes: Not applicable
1-methoxy-2-propanol - CAS: 107-98-2
Biodegradability: Readily biodegradable - Test: Dissolved organic carbon - Duration: 28 days - %: 96 - Notes: Not applicable
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1
Biodegradability: Readily biodegradable - Test: Not applicable - Duration: Not applicable - %: Not applicable - Notes: Not applicable
Regulation (EC) No. 648/2004 on Detergents and amendments:
Surfactant(s) contained in this preparation comply with biodegradability criteria as defined in (EC) regulations on detergents.

12.3. Bioaccumulative potential
Fhosphoric acid - CAS: 7664-38-2
Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable
1-methoxy-2-propanol - CAS: 107-98-2
Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient Not applicable - Duration: Not applicable - Notes: <1
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1
Bioaccumulation: Not applicableTest: BCF - Bioconcentrantion factor 0.5 - Duration: Not applicable - Notes: Not applicable
Bioaccumulation: Not applicableTest: Kow - Partition coefficient 0.5 - Duration: Not applicable - Notes: Not applicable

12.4. Mobility in soil
1-methoxy-2-propanol - CAS: 107-98-2
Mobility in soil: Mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product and its residue:
Do not dispose in the canals of wastewater, waterways and soil.
The codes indicating the type of waste are considered based on the recommendations and scheduled use of this product. Different codes may be assigned busedon the end user's use and the characteristics of the disposal.
Waste code CER/EWC (2000/532/CE), attributable to the product as:
07 06 01* Aqueous solution of washing and mother liquors

HP8
Any remaining product should be disposed of with the material.

Containers/contaminated packaging

Containers, even completely empty, must not be disposed in the environment. The packigings which can not be cleaned should be disposed of as the material.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

ADR-UN Number:	1719
IATA-UN Number:	1719
IMDG-UN Number:	1719

14.2. UN proper shipping name

ADR-Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S.(Fhosphoric acid, Oleylbis(2-hydroxyethyl)amine)
IATA-Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S.(Fhosphoric acid, Oleylbis(2-hydroxyethyl)amine)
IMDG-Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S.(Fhosphoric acid, Oleylbis(2-hydroxyethyl)amine)

14.3. Transport hazard class(es)

ADR-Class:	8
ADR-Label:	8
ADR - Hazard identification number:	80
IATA-Class:	8
IATA-Label:	8
IMDG-Class:	8

14.4. Packing group

ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II

14.5. Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No

14.6. Special precautions for user

ADR-Subsidiary risks:	-
ADR-S.P.:	274
ADR-Transport category (Tunnel restriction code):	(E)
IATA-Passenger Aircraft:	851
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	855
IATA-S.P.:	A3 A803
IATA-ERG:	8L
IMDG-EmS:	F-A , S-B
IMDG-Subsidiary risks:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	SG22 SG35

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:
Restriction 3
Restriction 40
Restrictions related to the substances contained:
Restriction 30
Volatile Organic compounds - VOCs = 0.25 %
Volatile Organic compounds - VOCs = 2.53 g/l
Volatile CMR substances = 0.00 %
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %
Organic Carbon - C = 0.00
Where applicable, refer to the following regulatory provisions :
Regulation (EC) n° 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Seveso III category according to Annex 1, part 1
Product belongs to category: Not applicable

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1A, H314	On basis of test data (pH)
Eye Dam. 1, H318	On basis of test data (pH)

This document was prepared by a competent person who has received appropriate training.
This MSDS cancels and replaces any preceding release.
Where applicable, refer to the following regulatory provisions :

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments; Regulation (EC) n°1272/2008; Regulation (EC) N. 790/2009 (annex VI), Regulation (EC) n. 1907/2006 (REACH).
Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments; Commission Directive n. 2006/8/CE.
Directive 2012/18/EU (Seveso III)
Directive 2013/10/EU (aerosols) amending Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) n° 1272/2008 on classification, labelling and packaging of substances and mixtures and subsequent amendments.
Regulation (EC) No 1223/2009 on cosmetic products and subsequent amendments.
Regulation (EU) No 126/2013 amending Annex XVII to Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and subsequent amendments. Regulation (EC) N. 304/2003 and subsequent amendments. Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products and subsequent amendments.
EU Regulament 1357/2014 (Disposal of waste) and subsequent amendments.
The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), current edition.
Regulations IATA/ICAO = Dangerous Goods Regulations by air, current edition.
RID = Regulations concerning the International Carriage of Dangerous Goods by Rail, current edition.
IMDG Code = International Maritime Dangerous Goods Code produced by the International Maritime Organization (IMO), current edition.

Main bibliographic sources:

ACGIH - Threshold Limit Values - 2015
Occupational exposure limit values (Commission Directives 2000/39/EC and 2006/15/CE)
ECHA dossier
NIOSH - Registry of toxic effects of chemical substances (1983)
Material Safety Data Sheets of chemicals, REACH database
Material Safety Data Sheet and Technical Data of raw material as by Supplier.

Abbreviations and acronyms:

TLV-TWA = Threshold Limit Value- time-weighed average, 8-hour workday, 40-hour workweek; TLV-STEL-15 min = Threshold Limit Values - Short Term Exposure Limit; TLV-C = Ceiling exposure limit; Notes: IBE= Biological Exposure Indices; SEN= sensitizer; Skin= Can be absorbed through the skin. Carcinogenicity categories: A1 / A2 = confirmed / suspected human carcinogen; A3 = Animal carcinogen; A4 / A5 = Not Classificable/not suspected as a human carcinogen. ACGIH = American Conference on Governmental Industrial Hygienists. OEL =Occupational Exposure Limit. VLPE = Occupational Exposure Limit Values. LTE =long term exposure, STE=short term exposure.
n.av.= Not Available, n.a. = not applicable; LD50=lethal dose (solids and liquids), LC50=lethal concentration (gases) that will kill 50% of the test animals; ADR= European Agreement concerning the International Carriage of Dangerous Goods by Road. Regulations IATA/ICAO = Dangerous Goods Regulations by air, current edition.
RID = Regulations concerning the International Carriage of Dangerous Goods by Rail, current edition. IMDG Code = International Maritime Dangerous Goods Code produced by the International Maritime Organization (IMO), current edition.
PBT = Persistent, Bioaccumulative and Toxic substances. ; vPvB = very Persistent and very Bioaccumulative substances; CMR = Carcinogenic, mutagenic or reproduction toxic substances.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.