SAFETY DATA SHEET
DOS-GEL Proffesional

Commission Regulation (EU) 2020/878 of 18 June 2020.
According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

Product name DOS-GEL Proffesional

UFI UFI: 1J60-80YH-4003-364R

Product number 125240

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Universal thick cleaning gel for disinfection and whitening. Ideal for cleaning toilets, bathtubs, sinks, tiles, drains, drains, floors and countertops.

1.3. Details of the supplier of the safety data sheet

Supplier BCG Turkey Kimya A.Ş.
Karamehmet Mahallesi, Avrupa Serbest Bölgesi 11. Sokak No:5, Ergene, 59930 Tekirdağ
Tel: 90 (282) 691 10 05
www.bcg-turkiye.com

Contact person info@bcg-turkiye.com

1.4. Emergency telephone number

Emergency telephone BCG Türkiye: 90 (282) 691 10 05

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

Additional information Classification (Regulation (EC) No. 1272/2008).

2.2. Label elements

Hazard pictograms

Signal word Danger

Hazard statements
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P102 Keep out of reach of children.
P260 Do not breathe vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container in accordance with national regulations.

Contains Sodium hypochlorite, solution ... % Cl active, Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Sodium hydroxide

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Detergent labelling < 5% anionic surfactants

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Sodium hypochlorite, solution ... % Cl active **1-5%**

CAS number: 7681-52-9 EC number: 231-668-3

M factor (Acute) = 10 M factor (Chronic) = 1

SCL: EUH031: C ≥ 5 %

Classification
Met. Corr. 1 - H290
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Alcohols, C12-14, ethoxylated, sulfates, sodium salts **1-5%**

CAS number: 68891-38-3 EC number: 500-234-8

Eye Dam. 1 - H318:≥10%.Eye Irrit. 2 - H319:≥5 - 10%

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

Sodium hydroxide **1-5%**

CAS number: 1310-73-2 EC number: 215-185-5

Specific Concentration Limits - Sodium hydroxide: Skin Corr. 1A; H314: C ≥ 5%, Skin Corr. 1B; H314: 2% ≤ C < 5%, Skin Irrit. 2; H315: 0,5% ≤ C < 2%, Eye Irrit. 2; H319: 0,5% ≤ C < 2%

Classification
Skin Corr. 1A - H314
Eye Dam. 1 - H318

Amines, C12-18(even numbered)-alkyldimethyl, N-oxides **<1%**

CAS number: 68955-55-5 EC number: 931-341-1

M factor (Acute) = 1

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Acute 1 - H400
Aquatic Chronic 2 - H411

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Lauramine Oxide	**<1%**
CAS number: 1643-20-5	EC number: 216-700-6
M factor (Acute) = 1	

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Acute 1 - H400
Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist.

Ingestion Rinse mouth thoroughly with water. Stop if the affected person feels sick as vomiting may be dangerous. Get medical attention.

Skin contact Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician.

Eye contact Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

Protection of first aiders It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation A single exposure may cause the following adverse effects: Severe irritation of nose and throat. Symptoms following overexposure may include the following: Corrosive to the respiratory tract.

Ingestion May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.

Skin contact Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.

Eye contact Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

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5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. This product is corrosive. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. This product is corrosive. Immediate first aid is imperative. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Store away from the following materials: Acids.

Storage class Non-combustible corrosive hazardous substances

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Sodium hypochlorite, solution ... % Cl active

Short-term exposure limit (15-minute): UK-WEL 2 mg/m³

Sodium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³

2-(2-ethoxyethoxy)ethanol

Long-term exposure limit (8-hour TWA): TRGS 900 35 mg/m³ 6 ppm
WEL = Workplace Exposure Limit.

Sodium hypochlorite, solution ... % Cl active (CAS: 7681-52-9)

DNEL
Workers - Inhalation; Long term systemic effects: 1.55 mg/m³
Workers - Inhalation; Short term systemic effects: 3.1 mg/m³
Workers - Inhalation; Long term local effects: 1.55 mg/m³
Workers - Inhalation; Short term local effects: 3.1 mg/m³

PNEC
Fresh water; 0.21 µg/L
marine water; 0.042 µg/L
STP; 4.69 mg/l

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (CAS: 68891-38-3)

DNEL
Workers - Dermal; Long term systemic effects: 2750 mg/kg
Workers - Inhalation; Long term systemic effects: 175 mg/m³
Workers - Dermal; Long term local effects: 132 µg/cm²
Consumer - Dermal; Long term systemic effects: 1650 mg/kg
Consumer - Inhalation; Long term systemic effects: 52 mg/m³
General population - Dermal; Long term systemic effects: 79 µg/cm²
Consumer - Oral; Long term systemic effects: 15 mg/kg

PNEC
Fresh water; 0.24 mg/l
marine water; 0.024 mg/l
Intermittent release; 0.071 mg/l
STP; 10000 mg/l
Sediment (Freshwater); 0.917 mg/kg
Sediment (Marinewater); 0.092 mg/kg
Soil; 7.5 mg/kg

Sodium hydroxide (CAS: 1310-73-2)

DNEL
Workers - Inhalation; Long term local effects: 1 mg/m³
General population - Inhalation; Long term local effects: 1 mg/m³

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Lauramine Oxide (CAS: 1643-20-5)

DNEL	Workers - Inhalation; Long term systemic effects: 6.2 mg/m³ Workers - Dermal; Long term systemic effects: 11 mg/kg
PNEC	Fresh water; 0.034 mg/l marine water; 0.003 mg/l STP; 24 mg/l Sediment (Freshwater); 5.24 mg/kg Sediment (Marinewater); 0.524 mg/kg Soil; 1.02 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection	Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	No information available.
Odour	Grass pine.
Odour threshold	No information available.
pH	pH (concentrated solution): 11.0
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.

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Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	5-3000 cp
Explosive properties	No information available.
Oxidising properties	No information available.
Particle characteristics	Not applicable.

9.2. Other information

Other information	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See the other subsections of this section for further details.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid	Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapours.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Notes (oral LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation

Serious eye damage/irritation Corrosivity to eyes is assumed.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

11.2. Information on other hazards

Information on other hazards This product does not contain any known or suspected endocrine disruptors.

Toxicological information on ingredients.

Sodium hypochlorite, solution ... % Cl active

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} 1100 mg/kg, Oral, Rat

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Skin sensitisation

Skin sensitisation (OECD 406) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vivo Mouse Micronucleus assay: Negative.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 2,870.0

Species Rat

Notes (oral LD_{50}) LD_{50} 2870 mg/kg, Oral, Rat

ATE oral (mg/kg) 2,870.0

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >2000 mg/kg bw , Dermal, Rat

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Animal data (OECD Test Guideline 404) Rabbit.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.
(OECD Test Guideline 405) Rabbit.

Reproductive toxicity

Summary In the present two-generation reproductive toxicity study in the rat, which was compliant with OECD 416 and performed under GLP conditions, rats were treated with 0.03, 0.1 and 0.3% test substance in drinking water. In summary, there was no effect of treatment at any dose level neither on reproduction nor systemic toxicity of the parents or offspring. The reproductive/developmental and the systemic NOAEL were therefore considered to be ≥0.3 %;, corresponding to roughly ≥ 300 mg/kg bw/day.

Toxicokinetics Absorption rate - oral (%): 100
Absorption rate - dermal (%): 0.9

Repeated dose toxicity NOAEL, 90 d 300 mg/kg bw/d, Oral, Rat
Based on available data the classification criteria are not met.

Sodium hydroxide

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} 325 mg/kg, Oral, Rabbit

Amines, C12-18(even numbered)-alkyldimethyl, N-oxides

Acute toxicity - oral

ATE oral (mg/kg) 500.0

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Lauramine Oxide

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,064.0
Species	Rat
Notes (oral LD_{50})	(OECD Test Guideline 401)
ATE oral (mg/kg)	1,064.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rat

Skin corrosion/irritation

Animal data	Causes skin irritation. Rabbit (OECD Test Guideline 404)

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage. Rabbit (OECD Test Guideline 405)

SECTION 12: Ecological information

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity

Toxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

Sodium hypochlorite, solution ... % Cl active

Acute aquatic toxicity

LE(C)$_{50}$	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC_{50}, 96 hour: 0.08 mg/l, Pimephales promelas (Fat-head Minnow) (ECOTOX Database)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 0.04 mg/l, Daphnia magna (ECOTOX Database)
Acute toxicity - aquatic plants	ErC50, 72 hour: 0.036 mg/l, Pseudokirchneriella subcapitata (OECD 201) Static test. EC10, 72 hour: 0.02 mg/l, Pseudokirchneriella subcapitata (OECD 201) Static test.
Acute toxicity - microorganisms	EC_{50}, 3 hour: 77.1 mg/l, Activated sludge Growth inhibition test (OECD 209) Static test.

Chronic aquatic toxicity

M factor (Chronic)	1

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Toxicity	Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

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Acute toxicity - fish	LC_{50}, : >10-100 mg/l, Fish LC_{50}, 96 hour: 7.1 mg/l, Danio rerio (zebra fish) (OECD 203)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 7.4 mg/l, Daphnia sp. (OECD 202) (Daphnia sp. Acute Immobilisation Test)
Acute toxicity - aquatic plants	ErC50, 72 hour: 27.7 mg/l, Scenedesmus subspicatus (OECD 201)
Acute toxicity - microorganisms	EC_{0}, : >100 mg/l, Bacteria
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, : > 0,1 - 1 mg/l,
Toxicity to soil	EC10, 56 day: ≥750 mg a.i./kg soil dw , Eisenia Fetida (Earthworm)
NOEC-Fish	0.14 mg/L, Oncorhynchus mykiss (similar to OECD 215)
NOEC-Aquatic Invertebrates	0.27 mg/L, (QSAR-model)
NOEC-Aquatic Plants	0.95 mg/L, Scenedesmus subspicatus (OECD 201)

Sodium hydroxide

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hours: 45.6 mg/l, Oncorhynchus mykiss (Rainbow trout) LC_{50}, 96 hour: 196 mg/l, Marinewater fish LC_{50}, 96 hour: 125 mg/l, Freshwater fish, Western mosquitofish
Acute toxicity - aquatic invertebrates	EC_{50}, 96 hours: 33-100 mg/l, Daphnia magna EC_{50}, 2 day: 40,4 mg/l, Daphnia magna
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 4 day: 56 mg/l, Marinewater fish

Amines, C12-18(even numbered)-alkyldimethyl, N-oxides

Acute aquatic toxicity	
$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1

Lauramine Oxide

Acute aquatic toxicity	
$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hour: 31,8 mg/l, Danio rerio (zebra fish) (OECD 203) NOEC, 15 day: 0,495 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: 3,9 mg/l, Daphnia magna (OECD 202)

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Acute toxicity - aquatic plants	ErC50, 72 hour: 0,2 mg/l, Pseudokirchneriella subcapitata (OECD 201) ErC50, -- : 0,146 mg/l, Pseudokirchneriella subcapitata NOEC, -- : 0,015 mg/l, Pseudokirchneriella subcapitata

2-(2-ethoxyethoxy)ethanol

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: >10000 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hour: >10000 mg/l, Daphnia magna

Diphenyl oxide

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known. Expected to be readily biodegradable.

Ecological information on ingredients.

Sodium hypochlorite, solution ... % Cl active

Persistence and degradability	The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Persistence and degradability	The substance is readily biodegradable. This surfactant complies with the biodegradability criteria as laid down in The Detergents Regulations (as amended).
Biodegradation	Water - Degradation 100%: 28 day EU Method C.4-A (Determination of the "Ready" Biodegradability - Dissolved Organic Carbon (DOC) Die-Away Test) - Degradation >=77%: 28 day (O2 consumption) (OECD Test Guideline 301D)

Lauramine Oxide

Biodegradation	Aerobic - Degradation 95,2: 28 day OECD 301C - Ready Biodegradability - Modified MITI Test (I)

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation. The product does not contain any substances expected to be bioaccumulating.

Partition coefficient No information available.

Ecological information on ingredients.

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Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Bioaccumulative potential log Kow: <=3, Low potential.
Alkyl ether sulfates have a limited potential to bioaccumulate. Available studies on the uptake and elimination of surfactants suggest a rapid uptake, but also fast biotransformation and elimination of the substances. The proposed mechanism for the elimination is the enzymatic breakdown to polar metabolites and alkyl chains by ω- and ß-oxidations subsequently or in parallel.

Sodium hydroxide

Bioaccumulative potential No potential for bioaccumulation.

12.4. Mobility in soil

Mobility No data available. The product is water soluble and spreads in the soil in this way.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties The product does not contain any endocrine disrupting substance.

12.7. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

Waste class 20 01 29* Detergents containing dangerous substances

SECTION 14: Transport information

14.1. UN number or ID number

UN No. (ADR/RID) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN No. (ADN) 1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ROSIVE LIQUID, N.O.S. (CONTAINS Sodium hydroxide, Sodium hypochlorite, solution ... % Cl active)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (CONTAINS Sodium hydroxide, Sodium hypochlorite, solution ... % Cl active, Amines, C12-18(even numbered)-alkyldimethyl, N-oxides, Lauramine Oxide)

Proper shipping name (ICAO) ROSIVE LIQUID, N.O.S. (CONTAINS Sodium hydroxide, Sodium hypochlorite, solution ... % Cl active)

Proper shipping name (ADN) ROSIVE LIQUID, N.O.S. (CONTAINS Sodium hydroxide, Sodium hypochlorite, solution ... % Cl active)

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Commission Regulation (EU) 2020/878 of 18 June 2020.
According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C9
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels

14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)
Limited quantities (ADR)	5 L

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments	Not applicable.

SECTION 15: Regulatory information

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

National regulations

Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.
Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) 2020/878 of 18 June 2020.
Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

Authorisations (SI 2020 No. 1577 Annex XIV) and REACH 1907/2006, Annex XIV	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII) and REACH 1907/2006, Annex XVII	No specific restrictions on use are known for this product.
Seveso Directive - Control of major accident hazards	E1 Lower-tier 100 tonnes Upper-tier 200 tonnes. E2 Lower-tier 200 tonnes Upper-tier 500 tonnes.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC_{50}: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Eye Dam. = Serious eye damage Skin Corr. = Skin corrosion Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/ This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect preapared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.
Classification procedures	Eye Dam. 1 - H318: Skin Corr. 1B - H314: : Calculation method. Aquatic Acute 1 - H400: Aquatic Chronic 2 - H411: : Calculation method.
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Hazard statements in full

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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