

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Dish soap "Wash & Free"

Lemon and Mint

Dated: 2020-09-24

Version Nr. 01

Printed: 2021-02-08

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING:

1.1. PRODUCT IDENTIFIER:

MIXTURE IDENTIFICATION:	Liquid dishwashing detergent. Free of phosphates, fragrances, dyes and formaldehydes.
MIXTURE PACKAGING:	500 g;
MIXTURE CONTAINS:	5-15 % anionic surfactants, 5-15 % nonionic surfactants. Other ingredients: preservatives (Methylchloroisothiazolinone, Methylisothiazolinone).
TRADE NAME:	Dish soap
TRADE MARK:	Wash & Free
REACH REGISTRATION NR.:	Not applicable. Mixture
MOLECULAR FORMULA:	Not applicable. Mixture
MOLECULAR WEIGHT:	Not applicable. Mixture
CAS NR.:	Not applicable. Mixture
EC NR.:	Not applicable. Mixture
INDEX NR.:	Not applicable. Mixture

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

RECOMMENDED USE:	Household. Use as detergent for Dishwashing. Apply the product for its intended purpose and according to the instruction. For additional information on the fields of use of this product, please contact us.
USES ADVISED AGAINST:	No available information

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

MANUFACTURER:	LLC "UKRAINIAN-GERMAN COMPANY " 2K "
ADDRESS OF THE MANUFACTURER:	Passage by Yuri Kozlovsky, 7/1, 29016, Khmelnytskyi, Ukraine
TELEPHONE NUMBER OF THE MANUFACTURER:	+38 (067) 654-10-82
FAX NUMBER OF THE MANUFACTURER:	-
E-MAIL OF THE MANUFACTURER:	info.2k@2k.company
COMPETENT PERSON RESPONSIBLE FOR THE MATERIAL SAFETY DATA SHEET:	info.2k@2k.company

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1.4. EMERGENCY CONTACTS:

LLC "UKRAINIAN-GERMAN COMPANY " 2K " (Office Hours)

1.4. 1. Emergency telephone number for other countries:

Country	Official advisory body	Address	Emergency number
Belarus	The Belarus Republican Poisons Centre Minsk Municipal Hospital of Emergency Medical Aid	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
Bulgarija	National Toxicological Information Centre National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409
Croatia	Poison Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Poisons Information Centre Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojisti 1 128 00 Prague 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Poisons Information Centre Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 Copenhagen NV	+45 82 12 12 12 +45 35 31 55 55
FINLAND	Poisons Information Centre	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977
Greese	Poisons Information Centre	11527 Athens	+30 10 779 3777
Greese	Department of Forensic Medicine & Toxicology	Aristotle University of Thessaloniki, Medical Faculty	54006 Thessaloniki
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárud tér 2	+36 80 20 11 99
Iceland	Iceland Poisons Information Centre Landspítali University Hospital	Fossvogi 108 Reykjavik	+354 525 111 +354 543 2222
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
ISRAEL	Israel Poisons Information Centre Rambam Medical Centre	PO Box 9602 31096 Haifa	+972 4 854 1900
ITALY	Centro Antiveleni (Poisons Centre) Dipartimento di Tossicologia Clinica, Universita Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 I-00168 Roma	+39 06 305 4343
Kazakhstan	Republican Toxicology Centre City Emergency Medicine Hospital	Tole-bi 93 480083 Almaty	KAZAKHSTAN
LATVIA	Toxicology and Sepsis Clinic, information on poisoning and medicinal products; State fire and rescue service:	2 Hipokrāta Street, Riga, LV-1038	+371 67042473 (+371) 112; (+371) 113
LITHUANIA	Poisons Control and Information	Siltnamiu 29	+370 2 36 20 52

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	Bureau	2043 Vilnius	+370 2 36 20 92
NORWAY	Poisons Information Directorate of Health and Social Affairs	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300
POLAND	Warsaw Poison Control and Information Centre	Al.Solidarnosci 67 P-03 401 Warszawa	+48 22 619 66 54 +48 22 619 08 97
PORTUGAL	Centro de Informação Antivenenos – Dra Arlinda Borges Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	TOXAPEL Emergency Clinical Hospital for Children "Grigore Alexandrescu"	Bulevardul Ianca de Hunedoara 30-32 Bucharest	+40 2121 06282 +40 2121 06183
RUSSIAN FEDERATION	Toxicology Information and Advisory Centre (RTIAC) Ministry of Health of the Russian Federation	3 Sukharevskaya Ploshad Block 7 129090 Moscow	+7 095 928 16 87 (Russian only)
SLOVAKIA	National Toxicological Information Centre University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SLOVENIA	Poison Centre Division of Internal Medicine	University Clinical Centre Zaloska 7 1525 Ljubljana	+ 386 41 650 500
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
UCRAINE	Institute of Hygiene and Toxicology, Науковий центр превентивної токсикології, харчової та хімічної безпеки імені академіка Л.І. Медведя Міністерства охорони здоров'я України.	вулиця Героїв Оборони, 6, Київ, Україна, 03680	+38 (044) 526-97-00
UNITED KINGDOM	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0870 600 6266 (UK only),
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0870 600 6266 (UK only),
UNITED KINGDOM	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0870 600 6266 (UK only)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
UNITED KINGDOM	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0870 600 6266 (UK only)
UNITED KINGDOM	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0870 600 6266 (UK only),

2. HAZARDS IDENTIFICATION:

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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GHS pictograms and signal word:	In accordance with Regulation No 1272/2008 (CLP)	
 Danger <i>Gefahr</i>	<p>Eye Dam. 1, H318</p> <p>Skin Irrit. 2, H315</p> <p>Aquatic Chronic 4, H413</p> <p>EUH208</p>	<p>Causes serious eye damage. <i>Verursacht schwere Augenschäden.</i></p> <p>Causes skin irritation. <i>Verursacht Hautreizungen.</i></p> <p>May cause long lasting harmful effects to aquatic life. <i>Kann für Wasserorganismen schädlich sein, mit langfristiger Wirkung.</i></p> <p>Contains Methylchloroisothiazolinone, Methylisothiazolinone. May produce an allergic reaction. <i>Enthält Methylchloroisothiazolinone, Methylisothiazolinone. Kann allergische Reaktionen hervorrufen.</i></p>

2.2. LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 (CLP)

The product is classified and labelled according to the CLP regulation

GHS pictograms and signal word:	 GHS05 Danger <i>Gefahr</i>
Hazard statements	<p>H318 Causes serious eye damage. <i>Verursacht schwere Augenschäden.</i></p> <p>H315 Causes skin irritation. <i>Verursacht Hautreizungen.</i></p> <p>H413 May cause long lasting harmful effects to aquatic life. <i>Kann für Wasserorganismen schädlich sein, mit langfristiger Wirkung.</i></p> <p>EUH208 Contains Methylchloroisothiazolinone, Methylisothiazolinone. May produce an allergic reaction. <i>Enthält Methylchloroisothiazolinone, Methylisothiazolinone. Kann allergische Reaktionen hervorrufen.</i></p>
Dimension of the pictogram (in millimetres)	<u>Capacity of the package:</u> ≤ 3 litres: not smaller than 10x10. If possible, at least 16x16.
Dimension of the label (in millimetres)	<u>Capacity of the package:</u> ≤ 3 litres: if possible, at least 52x74.
Precautionary Statement Prevention	P102 Keep out reach of children. <i>Darf nicht in die Hände von Kindern gelangen.</i>

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	<p>P262 Do not get in eyes, on skin, or on clothing. <i>Nicht in die Augen, auf die Haut oder auf die Kleidung gelangen lassen.</i></p> <p>P264 Wash hands thoroughly after handling. <i>Nach Gebrauch Händegründlich waschen.</i></p> <p>P280 Wear protective gloves/protective clothing/eye protection/ face protection/hearing protection. <i>Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz/Gehörschutz tragen.</i></p>
Precautionary Statement Response	<p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <i>BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.</i></p> <p>P310 Immediately call a POISON CENTER/doctor. <i>Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.</i></p>
Precautionary Statement Storage	<p>P404 Store in a closed container. <i>In einem geschlossenen Behälter aufbewahren.</i></p>
Precautionary Statement Disposal	<p>P501 Dispose of contents/container in accordance with local, regional, national and international regulations. <i>Entsorgung des Inhalts/Behälters gemäß den örtlichen, regionalen, nationalen und internationalen Vorschriften.</i></p>

2.3 OTHER HAZARDS:

No other hazards are known.

2.4. RESULTS OF PBT UN vPvB ASSESSMENT:

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

3.1. SUBSTANCES:

Not applicable

3.2. MIXTURES:

Household product based on below mentioned hazardous ingredients:

HAZARDOUS COMPONENTS:				
INGREDIENT'S NAME; (INCI Name)	EC Nr. / EC Index No/ REACH Nr.	CAS. Nr	Percentage, m. %	Classification REGULATION (EC) No 1272/20
Sulfuric acid, (C12-alkyl) esters, sodium salts; Sodium Dodecyl Sulphate; (Sodium Lauryl Sulfate)	205-788-1/ Not applicable/ 01-2119489461-32-0000	151-21-3	1-10	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sodium 2-(2-dodecyloxyethoxy)ethyl sulphate; SLES; Alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts; (Sodium laureth sulfate)	500-234-8/ Not applicable/ 01-2119488639-16-0000	68891-38-3	1-10	Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 3; H412

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Alcohols, C12-14, ethoxylated	500-213-3/ Not applicable/ 01-2119487984-16-0000	68439-50-9	1-5	Aquatic Acute 1,H400 Aquatic Chronic 3, H412
Amines, coco alkyldimethyl, N-oxides; N,N-Dimethyl(coconut oil alkyl)amine oxide (Cocamine Oxide)	263-016-9/ Not applicable/ No (Pre-Registration process)	61788-90-7	1-5	Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Acute 1,H400
*5-chloro-2-methyl-2H-isothiazol-3-one (Methylchloroisothiazolinone)	247-500-7/ 613-167-00-5/ No data available	26172-55-4 ; CAS Nr. For mixture (3:1): 55965-84-9	<0.0015 (<15 ppm)	Acute Tox. 2; H330 Acute Tox. 2; H310 Acute Tox. 3; H301 Skin Corr. 1C;H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 EUH071 Aquatic Acute 1; H400 Aquatic Chronic 1: H410 (classification for mixture 3:1)
*2-methyl-2H-isothiazol-3-one (Methylisothiazolinone)	220-239-6/ 613-167-00-5/ No data available	2682-20-4; CAS Nr. For mixture (3:1): 55965-84-9		
Water and other ingredients, determined not to be hazardous	Balance			

* - ingredients with limit values that require monitoring at the workplace.

ADDITIONAL INFORMATION: None.

4. FIRST AID MEASURES:

4.1. DESCRIPTION OF FIRST AID MEASURES

SKIN PROBLEM:	Wash with plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
EYE CONTACT:	Immediately flush with plenty of water for several minutes. After initial flushing, remove any contact lenses and continue flushing. Keep eye wide open while rinsing. Immediately call a POISON CENTER/doctor.
INGESTION:	Rinse mouth with water. Do not induce vomiting. Give plenty of water to drink. Seek medical advice if necessary.
INHALATION:	If respiratory irritation occurs, remove casualty to fresh air and keep warm and at rest. Consult physician if necessary.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Causes serious eye damage. May cause skin irritation.

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).

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5. FIREFIGHTING MEASURES:

5.1. EXTINGUISHING MEDIA:

Suitable extinguishing media: Use chemical foam, dry chemical, carbon dioxide, sand or water fog.

Extinguishing media which must not be used for safety reasons: Water jet

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE :

In case of fire, toxic incineration products may be released such as: carbon monoxide (CO), carbon dioxide (CO₂), sulphur oxides and nitrogen oxides. Do not inhale explosion and combustion gases. Burning produces heavy smoke.
EXPLOSION HAZARD: Non hazardous

5.3. ADVICE FOR FIREFIGHTERS:

Contact emergency personnel. Use self-contained breathing apparatus and full protective gear, if large quantities of product are involved. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, sulphur, nitrogen and/or derivatives.

5.4. ADDITIONAL INFORMATION:

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: PERSONAL PRECAUTIONS:

Wear personal protection equipment (see section 8). Keep persons away.

6.2. ENVIRONMENTAL PRECAUTIONS:

Do not allow product to enter waters without treatment in a (biological) water treatment plant.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically. Suitable binder: multi-purpose absorbent, sand. Dispose of contaminated material as waste according to section 13. Provide adequate ventilation.

6.4. REFERENCE TO OTHER SECTIONS:

See also section 8 and 13.

7. HANDLING AND STORAGE:

7.1. Precautions for Safe Handling:

For Household Settings: Store in closed container in dry place. Keep out of reach of children.

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For Non-Household Settings:

Store in closed container in dry place. Keep out of reach of children.

7.2. Conditions for Safe Storage:

For Household Settings: Store in closed container in dry place. Keep out of reach of children.

For Non-Household Settings: Protect from sunlight and do not expose to temperatures exceeding +25°C. Keep from extreme cold. Store in a ventilated, cool area. Store in closed container in dry place. Keep out of reach of children.

7.3. SPECIFIC END USE (S):

Use only as directed.

7.4. OTHER MEASURES:

Keep frost-free, in a cool, dry and ventilated area (<25° C). Protect from sunlight and keep away from heat.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

8.1. For Household Settings: This is a household product that is safe for consumers and other users under normal and reasonably foreseen use.

8.1.2. For Non-Household Settings: Use in a ventilated area. Use safety glasses or safety goggles if airborne mist hazards exist; use gloves and other protective clothing (apron, boots etc.) to prevent skin contact. Always follow good hygienic work practices. Avoid prolonged contact with skin and clothing. This is a household product that is safe for consumers and other users under normal and reasonably foreseen use.

8.1.2.1. CONTROL PARAMETERS:

Ingredients Name:	CAS Nr.	TWA, 8 hours	STEL, 15 min.
Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one	55965-84-9	0.076 mg/m ³	0.23 mg/m ³

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006 and NOAEL or NOAEC Values (ECHA data)

Substance name	End use	Exposure routes	Potential health effects	DNEL Level	NOAEL or NOAEC values
Sulfuric acid, (C12-alkyl) esters, sodium salts; Sodium	Workers	Inhalation	Long-term systemic effects	285 mg/m ³	860 mg/m ³ (NOAEC) (rat)
	Workers	Dermal	Long-term systemic effects	4060 mg/kg bw/day	

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DodecylSulphate; (Sodium LaurylSulfate) CAS Nr.: 151-21-3	Workers	Eyes	Long-term systemic effects	medium hazard (no threshold derived)	48800 mg/kg bw/day (rat)
Sulfuric acid, (C12-alkyl) esters, sodium salts; Sodium Dodecyl Sulphate; (Sodium Lauryl Sulfate) CAS Nr.: 151-21-3	Consumers	Inhalation	Long-term systemic effects	85 mg/m3	424 mg/m3 (NOAEC) (rat)
	Consumers	Dermal	Long-term systemic effects	2440 mg/m3	48800 mg/kg bw/day (rat)
	Consumers	Eyes	Long-term systemic effects	medium hazard (no threshold derived)	
	Consumers	Oral	Long-term systemic effects	24mg/kg bw/day	
Alcohols, C12-14, ethoxylated CAS Nr.: 68439-50-9	Workers	Inhalation	Long-term systemic effects	294 mg/m3	882 mg/m3 (NOAEC) (rat)
	Workers	Dermal	Long-term systemic effects	2080 mg/kg bw/day	25000 mg/kg bw/day (NOAEL, rat)
	Workers	Eyes	Long-term systemic effects	no hazard identified	
	Consumers	Inhalation	Long-term systemic effects	87 mg/m3	435 mg/m3 (NOAEC) (rat)
	Consumers	Dermal	Long-term systemic effects	1250 mg/kg bw/day	25000 mg/kg bw/day (NOAEL, rat)
	Consumers	Eyes	Long-term systemic effects	no hazard identified	
	Consumers	Oral	Long-term systemic effects	25 mg/kg bw/day	500 mg/kg bw/day (NOAEL) (rat)
Sodium 2-(2-dodecyloxyethoxy) ethyl sulphate CAS Nr.: 68891-38-3	Workers	Inhalation	Long-term systemic effects	175 mg/m3	530 mg/m3 (NOAEC) (rat)
	Workers	Dermal	Long-term systemic effects	2750 mg/kg bw/day	33000 mg/kg bw/day (NOAEL, rat)
	Workers	Eyes	Long-term systemic effects	medium hazard (no threshold derived)	
	Consumers	Inhalation	Long-term systemic effects	52 mg/m3	260 mg/m3 (NOAEC) (rat)
	Consumers	Dermal	Long-term systemic effects	1650 mg/kg bw/day	33000 mg/kg bw/day (NOAEL, rat)
	Consumers	Eyes	Long-term systemic effects	medium hazard (no threshold derived)	
	Consumers	Oral	Long-term systemic effects	15 mg/kg bw/day	300 mg/kg bw/day (NOAEL) (rat)
Substance name	End use	Exposure routes	Potential health effects	DNEL Level	NOAEL or NOAEC values
Amines, coco alkyldimethyl, N-oxides; N,N-	Workers	Dermal	Long-term systemic effects	No data available	No data available
	Workers	Eyes	Long-term systemic effects	No data available	No data available
	Consumers	Inhalation	Long-term systemic	No data available	No data available

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Dimethyl(coconut oil alkyl)amine oxide <i>(Cocamine Oxide)</i> CAS Nr.: 61788-90-7	Consumers	Dermal	effects Long-term systemic effects	No data available	No data available
	Consumers	Eyes	Long-term systemic effects	No data available	No data available
	Consumers	Oral	Long-term systemic effects	No data available	No data available

8.2. EXPOSURE CONTROLS:



**PERSONAL PROTECTIVE EQUIPMENT:
GENERAL PROTECTIVE AND HYGIENIC MEASURES:**

Avoid contact with the eyes. Wash hands during work breaks and at the end of the shift. Provide skin protection plan.

RESPIRATORY PROTECTION:

Not required

BODY PROTECTION:

Protective clothing

EYE PROTECTION:

Safety goggles

PROTECTION OF HANDS:

Chemical protective gloves according to DIN EN 374 with CE-labelling.
Check the condition of protective gloves after each use for any damages like holes, cuts or tears.
Do not wear protective gloves longer than necessary.
After use of gloves apply skin-cleaning agents and skin cosmetics.

- material of gloves:

Nitrile rubber, NBR

- penetration time of glove material:

Thickness: 0,4 mm; break-through time: 480 min.; material: Nitrile; permeation: **level 6**

- gloves made of the following materials are not suitable:

Gloves for mechanical protection do not provide protection against chemicals.

RISK MANAGEMENT MEASURES:

The operators shall be instructed adequately.
The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Liquid gel

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COLOUR	Colourless
ODOUR	Without parfum
pH – VALUE AT 20 °C :	5.5-8.0
MAXIMUM FOAM HEIGHT, % OF THE SCALE, NOT MORE THAN:	180 mm
MELTING POINT/MELTING RANG:	Not applicable
BOILING POINT (°C):	98.9 – 102°C
FREEZING POINT (°C):	Not applicable
FLASH POINT:	Not determined
DECOMPOSITION TEMPERATURE (°C):	Not determined
EXPLOSIVE HAZARDS:	Product is not explosive
AUTO-IGNITION TEMPERATURE:	Product is not selfigniting.
OXIDIZING PROPERTIES:	Not applicable
SOLUBILITY IN WATER	Completely soluble
FLAMMABILITY (solid, gaseous):	Not applicable - liquid

9.2. OTHER INFORMATION:

PARTITION COEFFICIENT: n-OCTANOL/WATER	log K_{ow} =0,30-3.90 (Sodium Laureth Sulfate); log K_{ow} =0,83 (Sodium Lauryl Sulfate); log K_{ow} =4,72 (Alcohols, C12-14, ethoxylated); log K_{ow} = 4.67 (Cocamine Oxide); log K_{ow} = 0.401 (Methylchloroisothiazolinone); log K_{ow} = -0.486 (Methylisothiazolinone);
% VOC:	Complies with EC regulations for VOC content.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY:	Stable under normal conditions
10.2. CHEMICAL STABILITY:	Stable under normal conditions
10.3. POSSIBILITY OF HAZARDOUS REACTION:	None
10.4. CONDITIONS TO AVOID:	Avoid heat, sunlight. Store away from oxidizers.
10.5. INCOMPATIBLE MATERIALS:	Acids, alkali, oxidizing agents
10.6. HAZARDOUS DECOMPOSITION PRODUCTS:	None

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11. TOXICOLOGICAL INFORMATION:

This is a household product that is safe for consumers and other users under intended and reasonably foreseeable use. Product is not classified as Toxic. Additional information on toxicological endpoints is available from the supplier upon request.

11.1. INFORMATION ON MIXTURE INGREDIENTS TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: Not classified as toxic.

Hazardous Ingredients:

Ingredients Name:	CAS No.	Composition Range	LD50/LC50 (oral)	LD50/LC50 (dermal)
Sodium Laureth Sulfate	68891-38-3	1-10 %	LD50 = >2000 mg/kg (Rat)	LD50 = >2000 mg/kg (Rat)
Sodium Lauryl Sulfate	151-21-3	1-10 %	LD50 = 1200 mg/kg (Rat)	LD50 = >2000 mg/kg (Rat)
Alcohols, C12-14, ethoxylated	68439-50-9	1-5 %	LD50 >2000 mg/kg (Rat)	LD50 >2000 mg/kg (Rat)
Cocamine Oxide	61788-90-7	1-5%	LD50 =3873 mg/kg (Rat) (Hoechst AG 1978)	LD50 >2000 mg/kg (Rat)
Mixture of 5-Chloro-2-methylisothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one	55965-84-9	<15 ppm	LD50 = 50-300 mg/kg (Rat)	LD50=200-1000 mg/kg (Rabbit)

PRIMARY IRRITANT EFFECT:

ON THE SKIN:

Not expected to be irritating, photoallergenic or phototoxic when used as intended. If irritation occurs following intended use or prolonged contact it is expected to be mild and transient.

ON THE EYE:

Contact may cause serious eye damage. Some redness and/or stinging may occur.

INHALATION:

May cause mild, transient respiratory irritation. Avoid prolonged contact to concentrated vapors.

INGESTION:

Product used as intended is not expected to cause gastrointestinal irritation. Accidental ingestion of undiluted product may cause mild gastrointestinal irritation with nausea, vomiting and diarrhea.

SENSITISATION:

May cause sensitising effect

CHRONIC EFFECT

No chronic effect known

CARCINOGENICITY

Finished product is not expected to be carcinogenic

TARGET ORGANS:

No adverse health effects on target organs expected for

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MUTAGENICITY

finished product.
No mutagenic effect known

TOXICAL EFFECT ON THE REPRODUCTIVE SYSTEM:

No toxic effect known

12. ECOLOGICAL INFORMATION:

12.1. TOXICITY: The product is classified as Aquatic Chronic 4, H413 May cause long lasting harmful effects to aquatic life. The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices. Additional information is available from the supplier on request.

12.1.1. INFORMATION ON MIXTURE INGREDIENTS ECOTOXICOLOGICAL EFFECTS:

AQUATIC TOXICITY:	
68891-38-3 Sodium laureth sulfate	
EC ₅₀ / 48 h	7.4 mg/l - (Daphnia magna) (OECD 202)
NOEC/21 d	1.2 mg/l – (Invertebrates) (Calculated, QSAR)
EC ₅₀ / 72 h	27.7 mg/l – Algae (OECD 201)
NOEC/72 h	0,95 mg/l (OECD 201)
LC ₅₀ / 96 h	7,1 mg/l – Fish (OECD 203)
NOEC/45 d	1 mg/l – Fish (OECD 203)
151-21-3 Sodium Lauryl Sulfate	
EC ₅₀ / 48 h	3.15 mg/l - (Daphnia magna) (OECD 202) - ECHA data
NOEC/7 d	0,88 mg/l - Ceriodaphnia dubia (EPA-600/489/001) - ECHA data
EC ₅₀ / 72 h	>120 mg/l – Algae (OECD 201)- ECHA data
NOEC/72h	30 mg/l – Algae (DIN 38412, part 9) - ECHA data
LC ₅₀ / 96 h	4,1 mg/l – Fish (OECD 203)- ECHA data
NOEC/42 d	>= 1,36 mg/l– Fish (OECD SIDAS, 2007)- ECHA data
68439-50-9 Alcohols, C12-14, ethoxylated	
EC ₅₀ / 48 h	0,53 mg/l - (Daphnia magna) (OECD 202)
NOEC ₂₀ /21 d	0.28 mg/l - (Invertebrates) (QSAR)
EC ₅₀ / 72 h	0.41-0.778 mg/l– Algae (OECD 2Kolb, 2008c01)
ErC ₂₀ /72 h	0.976 mg/l - (Daphnia magna) (QSAR)
LC ₅₀ / 96 h	1,2 mg/l – Fish (OECD 203)
NOEC/30 d	1.09 mg/l – Fish (QSAR)
61788-90-7 Cocamine Oxide	

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EC ₅₀ / 24 h	1.1-2.9 mg/l - (Daphnia magna)
NOEC/21 d	1.2 mg/l – (Invertebrates)
EC ₂₀ / 72 h	0.011 mg/l
EC ₅₀ / 72 h	>120 mg/l – Algae (OECD 201)- ECHA data
LC ₅₀ / 96 h	1,0-3,4 mg/l – Fish
NOEC/302 d	0.42mg/l – Fish (QSAR)
55965-84-9 Methylchloroisothiazolinone & Methylisothiazolinone	
EC ₅₀ / 48 h	0,16 mg/l (Daphnia magna) (OECD 202)
EC ₅₀ / 72 h	0.027 mg/l – Algae (OECD 201)
LC ₅₀ / 96 h	0,19 mg/l – Fish (OECD 203)

12.2. PERSISTENCE AND DEGRADABILITY

ASSESSMENT BIODEGRADATION AND ELIMINATION:

Readily biodegradable (acc. to OECD criteria).
The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Ingredient	Biodegradability	Days (OECD Guideline 301 B; 301 D, 301 F, 301 E and 302 B)
Sodium Laureth Sulfate	>60 %	28 (302 B)
Sodium Lauryl Sulfate	95,00%	28 (301 B)
Alcohols, C12-14, ethoxylated	95 %	28 (301 F)
Ingredient	Biodegradability	Days (OECD Guideline 301 B; 301 D, 301 F, 301 E and 302 B)
Cocamine Oxide	93 %	28 (301 D)
Methylchloroisothiazolinone & Methylisothiazolinone	>60 %	28 (301 D)
	30,00%	28 (301 B)

12.3. BIOACCUMULATIVE POTENTIAL

Not expected to bioaccumulate

Ingredient	BCF	Note
Sodium laureth sulfate	70.79	A very low potential for bioaccumulation
Sodium Lauryl Sulfate	In accordance with column 2 of Annex IX 9.3.2 of REACH Regulation EC 1907/2006, bioaccumulation testing in aquatic species is not required as the substance has a low potential for	For substance log Pow – 0,83 The tes substance is not expected to bioaccumulate in organisms . (ECHA data)

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	bioaccumulation (log Pow of < 3)	
Alcohols, C12-14, ethoxylated	237	Bioaccumulation in organisms is negligible, due to biotransformation and excretion of alcohol ethoxylates. (ECHA data)
Cocamine Oxide	<87	Low potential for bioaccumulation

12.4. MOBILITY IN SOIL:

Soluble in water. The product is predicted to have high mobility in soil.

Ingredient	Adsorption coefficient log K_{oc}	Note
Sodium laureth sulfate	4,71	Expected to be mobile
Sodium Lauryl Sulfate	5,00	Moderate mobile
Alcohols, C12-14, ethoxylate	3,95	Expected to be mobile
Cocamine Oxide	3,44	Expected to be mobile

ASSESSMENT TRANSPORT BETWEEN ENVIRONMENTAL COMPARTMENTS:

Adsorption to solid soil phase is possible.

ADDITIONAL ECOLOGICAL INFORMATION: AOX-INDICATION:

The product does not contain substances, which can influence the AOX of waste water.

THE FORMULATION CONTAINS THE FOLLOWING HEAVY METALS AND THEIR COMPOUNDS ACCORDING TO DIRECTIVE 2006/11/EC (ANNEX 1):

None

GENERAL NOTES:

Sewages that contain this product may not be released into the aquatic environment without preliminary treatments (biological purification plant).

12.5. RESULTS OF PBT UN vPvB ASSESSMENT:

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

12.6. OTHER ADVERSE EFFECTS

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption).

13. DISPOSAL CONSIDERATIONS:

13.1. For Household Settings:

The following instructions are for consumer usage only. Empty can through normal use as instructed on the can. Consumer produced household solutions may be disposed of down the drain with running water. Consumer may discard empty container in trash, or recycle where facilities exist.

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13.2. For Non-Household Settings: Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste. Disposal should be in accordance with all local, regional, national and international regulations.

13.2..2. WASTE TREATMENT METHODS:

Within the present knowledge of the supplier, this product is not regarded as hazardous waste. Do not discharge into any place where its accumulation could be dangerous. Consult supplier for specific recommendations.

EUROPEAN WASTE CATALOGUE	
EWC CODE	Description
07 06 01*	Aqueous washing liquids and mother liquors (Waste code applies to unused product)
15 01 02	Plastic packaging (Waste code applies to packaging containing residues of product)

CONTAMINATED PACKAGING:

RECOMMENDATION:

RECOMMENDED CLEANING AGENT:

Water. In single quantities packaging can be apply again or disposed in household waste container.

14. TRANSPORT INFORMATION:

- 14.1. UN NUMBER: None
- 14.2. UN PROPER SHIPPING NAME:
ADR, IATA, IMDG
- 14.3. TRANSPORT HAZARD CLASS (ES): None hazardous product
ADR, IATA, IMDG
- CLASS None
- 14.4. PACKING GROUP: N.a.
ADR, IATA, IMDG
- 14.5. ENVIRONMENTAL HAZARDS:
ADR-ENVIRONMENTAL POLLUTANT Aquatic Chronic 4, H413 May cause long lasting harmful effects to aquatic life.
MARINE POLLUTANT May cause long lasting harmful effects to aquatic life.
- 14.6. SPECIAL PRECAUTIONS FOR USER: None
- 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II
OF MARPOL 73/78 AND THE IBC CODE: Not applicable

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TRANSPORT/ADDITIONAL INFORMATION: No

UN "MODEL REGULATION" No

15. REGULATORY INFORMATION:

While the finished product(s) is considered hazardous, this MSDS contains valuable information critical to the safe handling and proper use of the product.

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

DIRECTIVE 2006/11/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 February 2006 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMMISSION REGULATION (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the REACH.

INFORMATION ABOUT LIMITATION OF USE: Take note of Directive 94/33/EC on the protection of young people at work.

Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

REGULATIONS WHICH MAY APPLY IN EVENT OF ACCIDENT: CONTROL OF MAJOR ACCIDENT HAZARDS (COMAH):

This substance/mixture is not subject to ordinance on industrial accidents (substance list, Annex I).

15.2. CHEMICAL SAFETY ASSESSMENT:

Not required.

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16. OTHER INFORMATION:

Full text of the classifications, including the indication of danger, the hazard symbols and the hazard statements, mentioned in section 2 or 3:

Acute Tox. 2	Acute toxicity – Category 2
Acute Tox. 3	Acute toxicity – Category 3
Acute Tox. 4	Acute toxicity – Category 4
Skin Corr. 1C	Skin corrosion – Category 1C
Eye Dam. 1	Eye Damage – Category 1
Skin Sens. 1A	Skin Sensitisation– Category 1A
Skin Irrit. 2	Skin irritation – Category 2
Eye Irrit. 2	Eye irritation – Category 2
STOT SE 3	Specific target organ toxicity - single exposure– Category 3
Aquatuc Acute 1	Acute aquatic toxicity - Category1
Aquatic Chronic 1	Chronic aquatic toxicity - Category1
Aquatic Chronic 3	Chronic aquatic toxicity - Category 3
Aquatic Chronic 4	Chronic aquatic toxicity - Category 4
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin.
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmfull to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life.
EUH071	Corrosive to the respiratory tract
EUH208	Contains (name of sensitising substance). May produce an allergic reaction.

ABBREVIATIONS AND ACRONYMS:

PBT:	persistent, bioaccumulative, toxic
vPvB:	very persistent, very bioaccumulative
EC:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
Index Nr.:	International Substance Identification Nr. (Information related to the classification of substance including all C&L elements (i.e. hazard pictograms, signal words, codification of hazard and precautionary statements, specific concentration limits or M-factors, any cut-off values and supplemental labelling information)
AOX:	Adsorbable Organohalogenes
ADR:	European Agreement concerning the International Carriage of Dangerous Goods
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods

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FAMILY
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- GHS:** Globally Harmonized System of Classification and Labelling of Chemicals
LC₅₀: Median (50 %) lethal concentration
LD₅₀: Median (50%) lethal dose
EC₅₀: Effective concentration, 50 percent
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and Mixtures
ECHA: European Chemicals Agency, Helsinki (http://echa.europa.eu/home_en.asp)
TWA: Time Weighted Average
STEL: Short Term Exposure Limit
DNEL: Derived no-effect level is the level of exposure to a substance above which humans should not be exposed
NOAEL: No-Observed-Adverse-Effect Level
NOAEC: No-Observed-Adverse-Effect Concentration
VOC: Volatile Organic Compounds

The information given in this MSDS was obtained from current and reliable sources. However, these data are provided without any warranty, expressed or implied, regarding their correctness or accuracy. Since the conditions of use, handling, storage, and disposal of this product are beyond P&B control, it is the responsibility of the user both to determine safe conditions for use as well as to assume liability for loss, damage, and expenses arising out of improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS.