

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878



**PRODUCT** Dishwashing liquid "Wash & Free" juicy lemon and mint

Version 3.0  
Date of first issue 18/11/2021  
Date of revision 12/12/2023

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

### 1.1. Product identifier

Product name: Dishwashing liquid "Wash & Free" juicy lemon and mint

Trade Mark: WASH&FREE

Product code: ---

UFI code: U771-D0X4-N00H-6MP8

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

Use of substance/mixture: PC35: Washing and cleaning products. Manual dishwashing liquid  
SU21-Consumer uses

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:	JOINT UKRAINIAN-GERMAN ENTERPRISE "2K" Khmelnitskiy, Yrii Kozlovsky Street, 7/1 Khmelnitskiy region, 29016, Ukraine
Responsible person in EU:	<b>NAME &amp; ADDRESS</b> 2K Haushaltschemie GmbH, Lindenstr. 48-52, 40233 Düsseldorf, mailto:d.kushal85@gmail.com, Phone: 491787178800 www. https://2k.company/de/

### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
<a href="#">AUSTRIA</a>	Austrian National Public Health Institute (GÖG) Vergiftungsinformationszentrale (VIZ)	Stubenring 6, 1010 Vienna, Austria T: +43 1 515 61-161 M: +43 676 848 191-661	Notruf 0–24 Uhr: 01 406 43 43 Euro-Notruf: 112 Rettung: 144 Ärztefunkdienst: 141
<a href="#">BELGIUM</a>	BELGIAN POISON CENTER (BELGISCH ANTIGIFCENTRUM)	Poison Control Center c/o Military Hospital Queen Astrid Bruynstraat 1, 1120 Brussels	070 245 245 (free, 24/7) If unreachable, tel. 02 264 96 30 (normal rate) 8002 5500 , from Grand Duchy of Luxembourg every day, free 24 /7
<a href="#">BULGARIA</a>	National Toxicology Center, Hospital for Active Medical Treatment and Emergency Medicine "N.I.Pirogov"	Ministry of Health, 5, „Sveta Nedelya“ sq., Sofia 1000	Emergency number/ fax: +359 2 9154 233 The service is available 24/7 and the communication language is Bulgarian +359 2 9154 409,
<a href="#">CROATIA</a>	Poison Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342 Information available 24/7 in Croatian and English.
<a href="#">CZECH REPUBLIC</a>	Poisons Information Centre Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojisti 1 128 00 Prague 2	224 91 92 93 224 91 54 02 +42 2 2491 9293 +42 2 2491 5402
<a href="#">DENMARK</a>	Poisons Information Centre Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 Copenhagen NV	+45 82 12 12 12 +45 35 31 55 55 Danish Poison Center (Giftlinjen): +45 8212 1212
<a href="#">ESTONIA</a>	Estonian Emergency Response Centre	Osmussaare 2, 13811 Tallinn General info: 6287 400	National emergency telephone number (Häirekeskuse number) is 112 Mürgistusteabekeskuse infoliin 16662 (välisriigist helistades (+372)7943794)

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<a href="#">FINLAND</a>	Poisons Information Centre	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	Medical Helpline 116117 Open 24 hours a day 0800 147 111 (the call is free of charge) 09 471 977 +358 9 471 977
<a href="#">FRANCE</a>	Poison Control Center (Centre Antipoison ORFILA)	<b>Hôpital Fernand Widal</b> 200 rue du faubourg St-Denis 75475 Paris Cedex 10	numéro ORFILA (INRS): + 33 (0)1 45 42 59 59 (for free 24/7) +33 (0)1 45 42 59 59
<a href="#">GERMANY</a>	"2K" Haushaltschemie GmbH	Lindenstr. 48-52, 40233 Düsseldorf, Germany	+491787178800
<a href="#">GREECE</a>	Poison Information Centre Children's Hospital P&A Kyriakou	Athens 11762 Greece	Emergency number: (0030) 2107793777 24 hours/day Fax: 00302107486114 +30 10 779 3777
<a href="#">HUNGARY</a>	Health Toxicology Information Service	1097 Budapest, Albert Flórián út 2-6.	+36 80 201 199 (0-24 hours, free of charge - only from Hungary) +36 1 476 6464 (0-24 hours, can be called for a standard fee - also from abroad)
<a href="#">ICELAND</a>	Poison control center	Fossvogi 108 Reykjavik	+354 543 2222 +354 543 1000 <b>112</b>
<a href="#">IRELAND (REPUBLIC OF IRELAND)</a>	The National Poisons Information Centre (NPIC)	Beaumont Hospital Beaumont Road 9 Dublin	01 809 2566
<a href="#">ITALY</a>	Centro Antiveleni (Poisons Centre) Dipartimento di Tossicologia Clinica, Università Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 I-00168 Roma	+39 06 305 4343
<a href="#">LATVIA</a>	<i>Toxicology and Sepsis Clinic, information on poisoning and medicinal products; State fire and rescue service:</i>	2 Hipokrāta Street, Riga, LV-1038	+371 67042473 (+371) 112; (+371) 113
<a href="#">LITHUANIA</a>	Poisons Control and Information Bureau	Siltnamiu 29 2043 Vilnius	+370 2 36 20 52 +370 2 36 20 92
<a href="#">THE NETHERLANDS</a>	UMC Utrecht Heidelberglaan 100 3584 CX Utrecht	Heidelberglaan 100 3584 CX UTRECHT Reception 1 (level 0), UMC Utrecht site	NVIC: +31 (0)88 755 8000: Only for the purpose of informing medical personnel in case of acute intoxications' or in Dutch: 'Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
<a href="#">NORWAY</a>	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
<a href="#">PORTUGAL</a>	Centro de Informação Antivenenos – Dra Ariinda Borges Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	Portugal CIAV phone number: +351 800 250 250 808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	TOXAPEL Emergency Clinical Hospital for Children "Grigore Alexandrescu"	Bulevardul Iancu de Hunedoara 30- 32 Bucharest	Phone number: +40213183606 +40 2121 06282 +40 2121 06183
<a href="#">SLOVAKIA</a>	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	Phone number: 112 + 386 41 650 500
<a href="#">SPAIN</a>	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	National Emergency Telephone Number of Spanish Poison Centre: + 34 91 562 04 20 The information will be provided in Spanish (available 24h/365 days): health personnel & general public (poisoning cases)

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<a href="#">SWEDEN</a>	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	"112 – ask for Poisons Information" (in Swedish this will be: "112 – begär Giftinformation" +46 8 33 12 31 (International)
<a href="#">UKRAINE</a>	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
<a href="#">UKRAINE</a>	LLC "UKRAINIAN-GERMAN COMPANY " 2K "	Passage by Yuri Kozlovsky, 7/1, 29016, Khmelnytskyi, Ukraine	+380676541082 <a href="mailto:info@2k.company">info@2k.company</a>

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Product definition	Mixture
Classification according to regulation (EC) No 1272/2008:	Eye Irrit. 2, H319 EUH208

### 2.2. Label elements

According to regulation (EC) No 1272/2008:	
Symbol:	
Signal word:	Warning
Hazard statements:	H319 Causes serious eye irritation.  EUH208 Contains Methylchloroisothiazolinone, Methylisothiazolinone, Limonene, Citral, Geraniol. May produce an allergic reaction.
Hazardous ingredients:	Contain: Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Amides, coco, N,N-bis(hydroxyethyl), Amines, coco alkyl dimethyl, N-oxides.
Precautionary statements:	P102 Keep out of reach of children.  P264 Wash hands thoroughly after handling.  P280 Wear protective gloves/protective clothing/eye protection/ face protection.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  Remove contact lenses, if present and easy to do. Continue rinsing.  P337 + P313 If eye irritation persists: Get medical advice/attention.
Supplemental label elements:	Not applicable.

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According to (EC) No 648/2004 (for detergents):

Ingredients: ≤ 5% anionic surfactants, non-ionic surfactants, preservative (5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one), perfume (limonene, citral, geraniol).

## Special packaging requirements

Containers to be fitted with child-resistant fastenings: No, not applicable.

Tactile warning of danger Δ: Yes, not applicable.

## 2.3. Other hazards

Product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

See section 11 for more detailed information on health effects and symptoms.

## SECTION 3: Composition/information on ingredients

**3.1. Substances** Not applicable.

**3.2. Mixtures** Solution of the following hazardous substances and non-hazardous substances.

Identifiers	Quantity %	Chemical name	Classification according to Regulation (EC) 1272/2008 (CLP)	SCL, M-factor, ATE	Type
EC: 500-234-8 CAS: 68891-38-3 INDEX: Not available REACH: 01-2119488639-16-0010	1,00-3,00	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	Not available	[1]
EC: 231-598-3 CAS: 7647-14-5 INDEX: Not available REACH: Not available	1,00-3,00	Sodium Chloride	Not classified	Not available	[2]
EC: 271-657-0 CAS: 68603-42-9 INDEX: Not available REACH: Not available	1,00-3,00	Amides, coco, N,N-bis(hydroxyethyl)	Skin Irrit. 2, H315 Eye Dam. 1, H318	Not available	[1]
EC: Not available CAS: 9003-01-4 INDEX: Not available REACH: Not available	0,10-1,00	2-Propenoic Acid (Polyacrylic Acid)	Not classified	Not available	-
EC: 263-016-9 CAS: 61788-90-7 INDEX: Not available REACH: Not available	0,10-0,40	Amines, coco alkyl dimethyl, N-oxides	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400	M=1	[1]
EC: 227-813-5 CAS: 5989-27-5 INDEX: 601-029-00-7 REACH: Not available	0,003-0,03	Limonene/ (R)-p-mentha-1,8-diene	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410	Not available	[1]

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EC: 226-394-6 CAS: 5392-40-5 INDEX: 605-019-00-3 REACH: Not available	0,002-0,02	Citral	Skin Irrit. 2, H315 Skin Sens. 1, H317	Not available	[1]
EC: 203-377-1 CAS: 106-24-1 INDEX: 603-241-00-5 REACH: Not available	0,001-0,01	Geraniol	Skin Irrit. 2, H315 Skin Sens. 1, H317	Not available	[1]
EC: 305-897-5 CAS: 8004-92-0 INDEX: Not available REACH: 01-2120752822-53-xxxx	0.001 - 0.01	1H-Indene-1,3(2H)-dione, 2-(2-quinoliny)-, sulfonated, sodium salts (CI 47005)	Not classified	Not available	-
EC: 233-826-7 CAS: 10377-60-3 INDEX: Not available REACH: Not available	0.00140	Magnesium nitrate	Not classified	Not available	-
EC: 247-500-7 CAS: 26172-55-4 INDEX: Not available REACH: Not available	0.00115	5-Chloro-2-methyl-2H-isothiazol-3-one	Acute Tox. 1, H300 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400	Not available	[1]
EC: 232-094-6 CAS: 7786-30-3 INDEX: Not available REACH: Not available	0.00080	Magnesium chloride	Not classified	Not available	-
EC: 220-239-6 CAS: 2682-20-4 INDEX: 613-326-00-9 REACH: Not available	0.00036	2-Methyl-2H-isothiazol-3-one	Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Acute Tox. 2, H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Skin Sens. 1A; H317: C ≥ 0,0015 %  M=10 M(Chronic)=1	[1]

See section 16 for the full text of the H phrases declared above.

Occupational exposure limits, if available, are listed in section 8.

### Type:

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] PBT-substance
- [4] vPvB-substance

## SECTION 4: First aid measures

### General information:

Take affected persons out of danger area and lay down.  
Immediately remove any clothing soiled by the product.  
In case of irregular breathing or respiratory arrest provide artificial respiration.

### After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm.  
Consult doctor if symptoms persist. In case of unconsciousness place patient

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stably in side position for transportation.

After skin contact: Immediately wash with water and rinse thoroughly. Seek immediate medical advice.

After eye contact: Rinse opened eye for several minutes under running water. Seek immediate medical advice.

Ingestion: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

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

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Risk of pulmonary oedema.

Skin contact: Caustic effect on skin and mucous membranes.

Eye contact: Eye irritation / Eye damage.

Ingestion: There may be soreness and redness of the mouth and throat. Caustic effect on mucous membranes.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

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

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

**See section 11 for more detailed information on health effects and symptoms.**

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Do not use full power water jet.

### 5.2. Special hazards arising from the substance or mixture

Risk of explosion if heated under confinement. In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide, carbon monoxide and unidentified organic and inorganic compounds.

### 5.3. Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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- 6.1.1. For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 6.1.2. For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

### 6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3. Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, acid binders, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4. Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

### 7.1. Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid getting in eyes or on skin or clothing. Avoid breathing vapor or mist. Avoid ingesting. Avoid release to environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residues and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store between +5 °C



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and +25 °C. Keep away from heat and sources of ignition. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Do not store above the following temperature:

No specific recommendation.

## 7.3. Specific end use(s)

Recommendations: Dishwashing liquid. Customer use.

Industrial sector specific solutions: Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

### 8.1. Control parameters

Occupational exposure limits Limit values are laid down throughout the EU, but each Member State establishes its own national OELs, often going beyond EU legislation ((IOELV). OELs are set by competent national authorities and other relevant institutions.

#### EU: Indicative Occupational Exposure Limit Value (IOELV):

Substance name	Limit value 8 hours		Limit value short term	
	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
Values not established	-	-	-	-

#### Latvia (AER, reg.325/2011):

Substance name	Limit value 8 hours		Limit value short term (15 min)	
	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
Sodium Chloride	5	-	-	-
Values not established	5	-	-	-

#### Germany (TRGS 900):

Substance name	Limit value 8 hours		Limit value short term (15 min)	
	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
Synthetic detergents	5	-	-	-

#### United Kingdom EH40/2018:

Substance name	Limit value 8 hours		Limit value short term (15 min)	
	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
Values not established	-	-	-	-

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the



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determination of hazardous substances.

### 8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

#### Individual protection measures:

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:



Safety eyewear or wear face protection complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection:

Hand protection:



Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

- **type of material:** NBR (Nitrile rubber)
- **material thickness:** >0,3 mm
- **breakthrough times of the glove material:** >480 minutes (permeation: level 6)
- **other protection measures:** Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an

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approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Respiratory protection necessary at: Aerosol or mist formation. Type: E (against acidic gases like sulphur dioxide or hydrogen chloride, colour code: yellow).

### Environmental exposure controls:

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

Physical state Homogeneous liquid (gel)

Colour Yellow

Odour Characteristic

Odour threshold Not applicable

pH 6.41

Melting point/freezing point Not available

Initial boiling point and boiling range Not available

Flash point Not available

Evaporation rate Not available

Flammability (solid, gas) Not available

Upper/lower flammability or explosive limits Not available

Vapour pressure Not applicable

Vapour density Not applicable

Density Not available

Solubility(ies) Highly soluble in water

Partition coefficient: n-octanol/water Not available

Auto-ignition temperature Not available

Decomposition temperature Not available

Viscosity Not available

Explosive properties Not available

Oxidising properties Not available

### 9.2. Other information

Not available

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not available

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

### 10.5. Incompatible materials

Reactive or incompatible materials not known.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity estimate** Product is not classified.  
**(ATE):**

#### Acute toxicity of ingredients:

2-Methyl-2H-isothiazol-3-one	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rats Rabbits Rats	120 mg/kg bw 242 mg/kg bw 0.13 mg/L	4h
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**Skin corrosion/irritation:** Product is not classified.

**Serious eye damage/eye irritation:** Eye Irrit. 1, H319

#### Irritation/ Corrosion of ingredients:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Skin: Irritating. Eye: Serious damage.
Amides, coco, N,N-bis(hydroxyethyl)	Skin: Irritating. Eye: Serious damage.
Amines, coco alkyl dimethyl, N-oxides	Skin: Irritating. Eye: Serious damage.
Limonene/ (R)-p-mentha-1,8-diene	Skin: Irritating. Eye: Not irritating.
Citral	Skin: Irritating. Eye: Not irritating.
Geraniol	Skin: Irritating. Eye: Not irritating.

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5-Chloro-2-methyl-2H-isothiazol-3-one	Skin: Corrosive. Eye: Serious damage.
2-Methyl-2H-isothiazol-3-one	Skin: Corrosive. Eye: Serious damage.

**Sensitisation:** Product is not classified.

### Sensitisation of ingredients:

Limonene/ (R)-p-mentha-1,8-diene	Skin: Sensitising. Respiratory: No known effect according to our database.
Citral	Skin: Sensitising. Respiratory: No known effect according to our database.
Geraniol	Skin: Sensitising. Respiratory: No known effect according to our database.
5-Chloro-2-methyl-2H-isothiazol-3-one	Skin: Sensitising. Respiratory: No known effect according to our database.
2-Methyl-2H-isothiazol-3-one	Skin: Sensitising. Respiratory: No known effect according to our database.

**Repeated dose toxicity:** Product is not classified.

	No known effect according to our database.
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**Carcinogenicity:** Product is not classified.

	No known effect according to our database.
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**Mutagenicity:** Product is not classified.

	No known effect according to our database.
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**Toxicity for reproduction:** Product is not classified.

	No known effect according to our database.
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**Specific target organ toxicity. Single / repeated exposure:** Product is not classified.

	No known effect according to our database.
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**Aspiration hazard** Product is not classified.

	No known effect according to our database.
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### Potential acute health effects

Inhalation: No known significant effects or critical hazards.  
Skin contact: May cause allergic skin reaction and irritation.  
Eye contact: Severely irritating to the eyes. Causes eye damage.  
Ingestion: Irritating to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.  
Skin contact: Adverse symptoms may include the following: irritation, redness.  
Eye contact: Adverse symptoms may include the following: pain, watering, redness.  
Ingestion: Stomach pains, vomiting.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure:

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Potential immediate effects: Not available.

Potential delayed effects: Not available.

## Long term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

## Potential chronic health effects:

Conclusion/Summary Not available.

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

## 11.2. Other information

Not available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Not classified

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Short-term toxicity to fish: LC50, 4 d: 7.1 mg/L. Long-term toxicity to fish: NOEC, 28 d: 140-200 µg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 7.2-7.4 mg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 270 µg/L. Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 27.7 mg/L. Toxicity to microorganisms: EC10, 16h: 10 g/L.
Amides, coco, N,N-bis(hydroxyethyl)	Short-term toxicity to fish: Not available. Short-term toxicity to aquatic invertebrates: Not available. Toxicity to aquatic algae and cyanobacteria: Not available. Toxicity to microorganisms: Not available.
Amines, coco alkyldimethyl, N-oxides	Short-term toxicity to fish: Not available. Short-term toxicity to aquatic invertebrates: Not available. Toxicity to aquatic algae and cyanobacteria: Not available. Toxicity to microorganisms: Not available.
Limonene/ (R)-p-mentha-1,8-diene	Short-term toxicity to fish: LC50, 4 d: 460 - 720 µg/L. Long-term toxicity to fish: NOEC, 28 d: 80 µg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 307 - 510 µg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 50 - 80 µg/L. Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 214 - 320 µg/L. Toxicity to microorganisms: EC50, 3h: 209 mg/L.
2-Methyl-2H-isothiazol-3-one	Short-term toxicity to fish: LC50, 4 d: 4.77 - 6 mg/L. Long-term toxicity to fish: NOEC, 33 d: 4.2 mg/L.

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Short-term toxicity to aquatic invertebrates: EC50, 48 h: 1.6 mg/L.  
Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 44.2 - 550 µg/L.  
Toxicity to aquatic algae and cyanobacteria: EC50, 4 d: 63 - 72.5 µg/L.

### 12.2. Persistence and degradability

The surfactants contained in the products are biodegradable according to the requirements of the detergent regulation (EC) No 648/2004. Biodegradation information refers only to organic components.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Readily biodegradable. The substance attained up to 74 % degradation after 28 days. Method: ISO 14593. According to (EC) No 648/2004 (for detergents).
Amides, coco, N,N-bis(hydroxyethyl)	Not available.
Amines, coco alkyl dimethyl, N-oxides	Not available.
Limonene/ (R)-p-mentha-1,8-diene	Readily biodegradable. After 28 days, the biodegradation was 71.4% (95% confidence interval 68.3 - 74.5%). Method: OECD Guideline 301. According to (EC) No 648/2004 (for detergents).
2-Methyl-2H-isothiazol-3-one	Readily biodegradable. 50 % biodegraded within 29 days and fails the 10 day window. Method: OECD 301B. According to (EC) No 648/2004 (for detergents).

### 12.3. Bioaccumulative potential

No known significant effects or critical hazards.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	log Kow ≤ 3
Amides, coco, N,N-bis(hydroxyethyl)	Not available.
Amines, coco alkyl dimethyl, N-oxides	Not available.
Limonene/ (R)-p-mentha-1,8-diene	BCF (aquatic species): 690.1 L/kg ww
2-Methyl-2H-isothiazol-3-one	BCF: 5.75 in carcass and 48.1 in viscera.

### 12.4. Mobility in soil

No known significant effects or critical hazards.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	The study does not need to be conducted because the substance is readily biodegradable
Amides, coco, N,N-bis(hydroxyethyl)	Not available.
Amines, coco alkyl dimethyl, N-oxides	Not available.
Limonene/ (R)-p-mentha-1,8-diene	The study does not need to be conducted because the substance is readily biodegradable.
2-Methyl-2H-isothiazol-3-one	Not available.

### 12.5. Results of PBT and vPvB assessment

Product (and ingredients) does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

### 12.6. Endocrine disrupting properties:

None

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## 12.7. Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

### 13.1. Waste treatment methods

#### Product:

Methods of disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste:

Within the present knowledge of the supplier, this product is regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC):

20 01 29\* Detergents containing dangerous substances.

#### Packaging:

Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Can be added to general waste collection after completely emptying. Incineration or landfill should only be considered when recycling is not feasible.

Within the present knowledge of the supplier, packaging is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC):

Container: 20 01 39-plastics

## SECTION 14: Transport information

**This preparation is classified** as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

### International transport regulations:

#### 14.1. UN number

This product does not require a classification for transport.

#### 14.2. UN proper shipping name

This product does not require a classification for transport.

#### 14.3. Transport hazard class(es)

This product does not require a classification for transport.

#### 14.4. Packing group

This product does not require a classification for transport.

#### 14.5. Environmental hazards

This product does not require a classification for transport.

#### 14.6. Special precautions for user

This product does not require a classification for transport.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

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

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.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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



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ADR - the European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded at Geneva on 30 September 1957, as amended.

RID - the Regulations concerning the International Carriage of Dangerous Goods by Rail, appearing as Appendix C to the Convention concerning International Carriage by Rail (COTIF) concluded at Vilnius on 3 June 1999, as amended.

ADN - the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways concluded at Geneva on 26 May 2000, as amended.

IMDG Code - International Maritime Dangerous Goods Code.

IATA/ICAO: ICAO - International Civil Aviation Organization. IATA - International Air Transport Association.

MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

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):

**Annex XIV - List of substances subject to authorization:** Substances of very high concern: None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:** Not applicable.

## 15.2. Chemical safety assessment

Chemical Safety Assessment following regulation 1907/2006/EC: Has not been done for the product.

## SECTION 16: Other information

### Abbreviations and acronyms:

Full text of abbreviations

CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
RID: International Rule for Transport of Dangerous Substances by Railway  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
CAS: Chemical Abstracts Service  
EINECS: European Inventory of Existing Commercial chemical Substances  
LC50: Median lethal concentration  
LD50: Median lethal dose  
REACH: Registration, Evaluation and Authorisation of Chemicals  
PBT: Persistent, bio-accumulative and toxic  
vPvB: Very persistent, very bio-accumulative

### Full text of classifications and H statements [CLP/GHS]:

Flam. Liq. 3, Flammable Liquids, Hazard Category 3;  
H226 Flammable liquid and vapour.  
Acute Tox. 1, Acute toxicity, Hazard Category 1;  
H300 Fatal if swallowed.  
H310 Fatal in contact with skin .  
Acute Tox.2, Acute toxicity, Hazard Category 2;  
H330 Fatal if inhaled.  
Acute Tox.3, Acute toxicity, Hazard Category 3;  
H301 Toxic if swallowed.

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	<p>H311 Toxic in contact with skin. Skin Corr. 1A,B, Skin corrosion, Hazard Category 1A,B; H314 Causes severe skin burns and eye damage Skin Irrit. 2, Skin corrosion/irritation, Hazard Category 2; H315 Causes skin irritation. Skin Sens. 1, Sensitisation-Skin, Hazard Category 1; H317 May cause an allergic skin reaction. Eye Damage 1, Serious eye damage, Hazard Category 1; H318 Causes serious eye damage. Eye Irritation 2, Serious eye irritation, Hazard Category 2 H319 Causes serious eye irritation. Aquatic Acute 1, Short-term (acute) aquatic hazard - Acute Hazard, Hazard Category 1; H400 Very toxic to aquatic life. Aquatic Chronic 1, Long-term (chronic) aquatic hazard, Hazard Category 1; H410 Very toxic to aquatic life with long lasting effects. Aquatic Chronic 3, Long-term aquatic hazard, Hazard Category 3; H412: Harmful to aquatic life with long lasting effects.</p>
<b>Product classification according to Regulation (EC) 1272/2008 (CLP)</b>	H319 Causes serious eye irritation.
<b>Training advice:</b>	In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

## Key literature sources:

Suppliers Safety Data Sheets. REGULATION (EC) No 1272/2008. Human & Environmental Risk Assessment on ingredients of European household cleaning products

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