

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 2020/878 of 18 June 2020



GLASS AND MIRRORS CLEANER WASH&FREE

Version No. 01

Dated: 2024-02-01

Printed: 2024-02-01

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

1.1. PRODUCT IDENTIFIER:

MIXTURE IDENTIFICATION:	Glass and mirrors cleaner
MIXTURE PACKAGING:	500 ml
MIXTURE CONTAINS:	< 5 % anionic surfactants, other ingredients: preservatives (Methylchloroisothiazolinone, Methylisothiazolinone), Perfume (Butylphenyl Methylpropional, Hexamethylindanopyran), CI 74180.
TRADE NAME:	Glass and Mirrors Cleaner Wash&Free
TRADE CODE:	-
TRADE MARK:	WASH&FREE
REACH REGISTRATION No.:	Not applicable. Mixture
MOLECULAR FORMULA:	Not applicable. Mixture
MOLECULAR WEIGHT:	Not applicable. Mixture
CAS No.:	Not applicable. Mixture
EC No.:	Not applicable. Mixture
INDEX No.:	Not applicable. Mixture
UFI Code:	49G2-P0YS-000P-5XTM

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

RECOMMENDED USE:	Household. Glass and mirrors cleaner. 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:	Uses other than those identified are not recommended

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:	+380676541082
FAX NUMBER OF THE MANUFACTURER:	-
E-MAIL OF THE MANUFACTURER:	info@2k.company
RESPONSIBLE PERSON IN EU:	2K Haushaltschemie GmbH, Lindenstr. 48-52, 40233 Düsseldorf, Germany mailto: d.kushal85@gmail.com, Phone: 491787178800

1.4. EMERGENCY CONTACTS: LLC "UKRAINIAN-GERMAN COMPANY " 2K " (Office Hours)

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1.4. 1. Emergency telephone number for other countries:

Country	Official advisory body	Address	Emergency number
AUSTRIA	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
BELARUS	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
BULGARIA	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,
CROATIA	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.
CZECH REPUBLIC	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
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 Danish Poison Center (Giftlinjen): +45 8212 1212
ESTONIA	Estonian Emergency Response Centre	Osmussaare 2, 13811 Tallinn General info: 6287 400	National emergency telephone number (Häirekeskuse number) is 112 Mürgistusteabeskuse infoliin 16662 (välisriigist helistades (+372)7943794)
FINLAND	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
FRANCE	Poison Control Center (Centre Antipoison ORFILA)	Hôpital Fernand Widal 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
GERMANY	"2K" Haushaltschemie GmbH	Lindenstr. 48-52, 40233 Düsseldorf, Germany	+491787178800
GREESE	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
HUNGARY	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)
ICELAND	Poison control center	Fossvogi 108 Reykjavik	+354 543 2222 +354 543 1000 112
IRELAND (REPUBLIC OF IRELAND)	The National Poisons Information Centre (NPIC)	Beaumont Hospital Beaumont Road 9 Dublin	01 809 2566
ITALY	Centro Antiveneni (Poisons Centre) Dipartimento di Tossicologia Clinica, Universita Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 I-00168 Roma	+39 06 305 4343
LATVIA	Toxicology and Sepsis Clinic, information on poisoning and medicinal	2 Hipokrāta Street, Riga, LV-1038	+371 67042473

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	products; State fire and rescue service:		(+371) 112; (+371) 113
LITHUANIA	Poisons Control and Information Bureau	Siltnamiu 29 2043 Vilnius	+370 2 36 20 52 +370 2 36 20 92
THE NETHERLANDS	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
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	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"	Boulevardul Iancu de Hunedoara 30-32 Bucharest	Phone number: +40213183606 +40 2121 06282 +40 2121 06183
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	Phone number: 112 + 386 41 650 500
SPAIN	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)
SWEDEN	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)
UKRAINE	Institute of Hygiene and Toxikology, 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
UKRAINE	LLC "UKRAINIAN-GERMAN COMPANY " 2K "	Passage by Yuri Kozlovsky, 7/1, 29016, Khmelnytskyi, Ukraine	+380676541082 info@2k.company

SECTION 2: Hazards identification

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS pictograms and signal word:	In accordance with Regulation No 1272/2008 (CLP)
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 Warning	Eye Irrit. 2, H319 EUH208	Causes serious eye irritation. Contains Methylchloroisothiazolinone, Methylisothiazolinone, Butylphenyl Methylpropional, Hexamethylindanopyran. May produce an allergic reaction.
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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:	 GHS07 Warning
Hazard statements	H319 Causes serious eye irritation. EUH208 Contains Methylchloroisothiazolinone, Methylisothiazolinone, Butylphenyl Methylpropional, Hexamethylindanopyran. May produce an allergic reaction.
Dimension of the pictogram (in millimetres)	<u>Capacity of the package:</u> ≤ 3 litres: not smaller than 10x10. If possible, at least 16x16. <u>Capacity of the package:</u> > 3 litres but ≤ 50 litres: at least 23x23.
Dimension of the label (in millimetres)	<u>Capacity of the package:</u> ≤ 3 litres: if possible, at least 52x74. <u>Capacity of the package:</u> > 3 litres but ≤ 50 litres: at least 74x105.
Precautionary Statement Prevention	P102 Keep out of reach of children. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement Response	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.
Precautionary Statement Storage	---
Precautionary Statement Disposal	---

Supplemental label elements:	< 5 % anionic surfactants, other ingredients: preservatives (Methylchloroisothiazolinone, Methylisothiazolinone), Perfume (Butylphenyl Methylpropional, Hexamethylindanopyran), CI 74180.
Annex XVII - Restrictions on the manufacture, placing on the market and use	None

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of certain dangerous substances, mixtures and articles:

Special packaging requirement

Containers to be fitted with child-resistant fastenings:

Not applicable.

Tactile warning of danger: shall be fitted with a tactile warning of danger.

Not applicable.

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.

SECTION 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 No / EC Index No/ REACH No	CAS No	Percentage, m. %	Classification REGULATION (EC) No 1272/2008	SCL/ M-factor/ ATE
Ethanol; (Alcohol)	200-578-6 / 603-002-00-5/ 01-2119457610-43-0000	64-17-5	4 - 7	Flam. Liq. 2, H225 Eye Irrit. 2, H319	≥50 %: Eye Irrit. 2A, H319
2-Butoxyethanol	203-905-0/ 603-014-00-0/ 01-2119475108-36--XXXX	111-76-2	1 - 4	Skin Irrit. 2, H315 Acute Tox. 4, H302 Acute Tox. 3, H331 Acute Tox. 4, H312 Eye Irrit. 2, H319	Inhalation: ATE= 3 mg/L (Vapours) Oral: ATE= 1200 mg/kg bw (-)
Sulfonic acids, C14-17- sec-alkane, sodium salts	307-055-2/ Not applicable/ 01-2119489924-20-0000	97489-15-1	0.1 – 1.0	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	-
Parfum	-/ - No data available	-	0.1 - 1.0	Aquatic Acute 1, H400	-
Propylene Glycol*	200-338-0/ Not applicable/ No data available	57-55-6	0.1 - 1.0	Not classified	-

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Lilial** (Butylphenyl Methylpropional)	201-289-8 605-041-00-3/ 01-2119485965-18-0000	80-54-6	0 – 0.1	Repr. 1B, H360Fd Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-
1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8- hexamethylindono[5,6-c]pyran** (Musk 50 IPM, Hexamethylindanopyran)	214-946-9/ Not applicable/ 01-2119488227-29-0000	1222-05-5	0 – 0.1	Aquatic Chronic 1, H410	-
5-chloro-2-methyl-2H-isothiazol- 3-one* (Methylchloroisothiazolinone)	247-500-7/ 613-167-00-5/ No data available	26172-55-4 ; CAS No. 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)	M=100 M(Chronic)=100
2-methyl-2H-isothiazol-3-one* (Methylisothiazolinone)	220-239-6/ 613-167-00-5/ No data available	2682-20-4; CAS No. For mixture (3:1): 55965-84-9		Specific Conc. Limits, M- factors and ATEs (*) for reaction mass of 5-chloro- 2- methyl-2H-isothiazol-3- one and 2-methyl-2H- isothiazol-3-one (3:1): Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	
Water and other ingredients, determined not to be hazardous	Balance				

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

** - parfum hazardous ingredients.

ADDITIONAL INFORMATION: None.

SECTION 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.
INHALATION:	If respiratory irritation occurs, remove casualty to fresh air and keep warm and at rest. Allow the victim to rest. Consult physician if necessary.

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

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Causes serious eye 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).

SECTION 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), hydrogen chloride. 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.

SECTION 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. Use a water rinse for final clean-up.

6.4. REFERENCE TO OTHER SECTIONS: See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for Safe Handling:

For Household Settings: Store in closed container in dry, cool, well ventilated area. Keep out of reach of

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children.

For Non-Household Settings:

Store in closed container in dry, cool, well ventilated area. Keep out of reach of children.

7.2. Conditions for Safe Storage:

For Household Settings: Store in closed container in dry, cool, well ventilated area. 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.

SECTION 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 No.	TWA, 8 hours	STEL, 15 min.
Ethanol	64-17-5	1000* mg/m ³	-
Propane-1,2-diol (Propylene Glycol)	57-55-6	7* mg/m ³	-
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

* Republic of Latvia Cabinet Regulation No. 325 Adopted on 15 May 2007 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces

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
Ethanol CAS No.: 64-17-5	Workers	Inhalation	Long-term systemic effects	950 mg/m ³	-
	Workers	Dermal	Long-term systemic effects	343 mg/kg bw/day	-
	Consumers	Inhalation	Long-term systemic effects	114 mg/m ³	-
	Consumers	Dermal	Long-term systemic effects	206 mg/kg bw/day	-

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	Consumers	Oral	Long-term systemic effects	87 mg/kg bw/day	-
2-Butoxyethanol CAS No.: 111-76-2	Workers	Inhalation	Long-term systemic effects	98 mg/m ³	-
	Consumers	Inhalation	Long-term systemic effects	59 mg/m ³	-
	Consumers	Oral	Long-term systemic effects	6.3 mg/kg bw/day	-
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1	Workers	Inhalation	Long-term systemic effects	35 mg/m ³	-
	Workers	Dermal	Long-term systemic effects	5 mg/kg bw/day	-
	Consumers	Inhalation	Long-term systemic effects	12.4 mg/m ³	-
	Consumers	Dermal	Long-term systemic effects	3.57 mg/kg bw/day	-
	Consumers	Oral	Long-term systemic effects	7.1 mg/kg bw/day	-
Propylene Glycol CAS No.: 57-55-6	Workers	Inhalation	Long-term systemic effects	168 mg/m ³	502 mg/m ³ (NOAEC, rat)

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. Ensure there is sufficient ventilation of the area.

RESPIRATORY PROTECTION:

In case of insufficient ventilation wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

BODY PROTECTION:

Protective clothing and footwear.

EYE PROTECTION:

Safety goggles

PROTECTION OF HANDS:

Protective gloves. Suitable material: NR (natural rubber), CR (polychloroprene) or NBR (nitrile rubber), category III according to EN 374. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Breakthrough time (maximal wear duration): Wear duration with occasional contact, splashes (Level 2: < 30 min): Disposable-gloves, Thickness of the material 0,1mm. Wear duration with permanent contact (Level 6: < 480min): Protective gloves, Thickness of the glove material 0,7 mm. Breakthrough times and

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- swelling properties of the material must be taken into consideration.
- material of gloves: NR (natural rubber), CR (polychloroprene) or NBR (nitrile rubber), category III according to EN 374.
- 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.

SECTION 9: Physical and chemical properties

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid
COLOUR:	Light blue
ODOUR:	Characteristic
pH – VALUE AT 20 °C:	5.0 – 7.5
MAXIMUM FOAM HEIGHT, % OF THE SCALE, NOT MORE THAN:	Not determined
MELTING POINT/MELTING RANG:	Not applicable
BOILING POINT (°C):	No data available
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} = - 0.35 (Ethanol); log K _{ow} = 0.81 (2-Butoxyethanol); log K _{ow} = 0.2 (Sulfonic acids, C14-17-sec-alkane, sodium salts); log K _{ow} = -1.07 (Propane-1,2-diol);
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$\log K_{ow} = 0.401$ (Methylchloroisothiazolinone);

$\log K_{ow} = -0.486$ (Methylisothiazolinone)

% VOC:

Complies with EC regulations for VOC content.

SECTION 10: Stability and reactivity

- 10.1. REACTIVITY: Stable under recommended transport or storage 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: No data available

SECTION 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:

Hazardous Ingredients:

Ingredients Name:	CAS No.	Composition Range, %	LD50/LC50 (oral)	LD50/LC50 (dermal)
Ethanol; (Alcohol)	64-17-5	4 - 7	LD50 = 10470 mg/kg (Rat)	LD50 >2000 mg/kg (Rat)
2-Butoxyethanol	111-76-2	1 - 4	LD50 = 1300 mg/kg (Rat)	LD50 >2000 mg/kg (Guinea pig)
Sulfonic acids, C14-17-sec-alkane, sodium salts	97489-15-1	0.1 – 1.0	LD50 = 500-2000 mg/kg	LD50 >2000 mg/kg (Mouse, female)
Propylene Glycol	57-55-6	0.1 – 1.0	LD50=22000 mg/kg (Rat)	LD50>2000 mg/kg (Rabbit)
Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one	55965-84-9	<15 ppm	LD50 = 50-300 mg/kg (Rat)	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.

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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:	No sensitisation effect known
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 finished product.
MUTAGENICITY:	No mutagenic effect known
TOXICAL EFFECT ON THE REPRODUCTIVE SYSTEM:	No toxic effect known

SECTION 12: Ecological information

12.1. TOXICITY: 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.

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12.1.1. INFORMATION ON MIXTURE INGREDIENTS ECOTOXICOLOGICAL EFFECTS:

AQUATIC TOXICITY:	
64-17-5 Ethanol	
EC ₅₀ / 48 h	5012 mg/l (<i>Ceriodaphnia dubia</i>)
EC ₅₀ / 72 h	275 mg/l – Algae (<i>Chlorella vulgaris</i>)
LC ₅₀ / 96 h	15300 mg/l – Fish (<i>Pimephales promelas</i>)
111-76-2 2-Butoxyethanol	
EC ₅₀ / 48 h	1550 mg/l - (<i>Daphnia magna</i>)
EC ₅₀ / 72 h	911 mg/l – Algae (<i>Pseudokirchneriella subcapitata</i>)
LC ₅₀ / 96 h	1474 mg/l – Fish (<i>Oncorhynchus mykiss</i>)
97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts	
EC ₅₀ / 48 h	9.81 mg/l – (<i>Ceriodaphnia dubia</i>)
EC ₅₀ / 72 h	>61 mg/l – Algae
LC ₅₀ / 96 h	1 - 10 mg/l – Fish (<i>Danio rerio</i>)
57-55-6 Propylene Glycol	
EC ₅₀ / 48 h	18340 mg/l (<i>Ceriodaphnia dubia</i>)
EC ₅₀ / 96 h	19000 mg/l (<i>Pseudokirchnerella subcapitata</i>)
LC ₅₀ / 96 h	40613 mg/l (<i>Oncorhynchus mykiss</i>)
55965-84-9 Methylchloroisothiazolinone & Methylisothiazolinone	
EC ₅₀ / 48 h	0.16 mg/l (<i>Daphnia magna</i>) (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:

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)
Ethanol	ca. 95 %	15 (OECD 301 E)
2-Butoxyethanol	90.4 %	28 (OECD TG 301 B)
Sulfonic acids, C14-17-sec-alkane, sodium salts	78 %	28 (OECD 301 B)
Propane-1,2-diol	96,00%	28 (OECD 301 F)
Methylchloroisothiazolinone & Methylisothiazolinone	>60 %	28 (OECD 301 D)
	30 %	28 (OECD 301 B)

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12.3. BIOACCUMULATIVE POTENTIAL

Not expected to bioaccumulate

Ingredient	BCF	Note
Ethanol	-	Not required - ethanol has a low partition coefficient/fully miscible with water.
2-Butoxyethanol	<100	Low potential for bioaccumulation
Sulfonic acids, C14-17-sec-alkane, sodium salts	1.4	Low potential for bioaccumulation
Propane-1,2-diol	0.09	Calculated

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
Ethanol	- 0.35	Highly mobile
2-Butoxyethanol	1.81	-
Sulfonic acids, C14-17-sec-alkane, sodium salts	No data available	
Propane-1,2-diol	-1.07	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. ENDOCRINE DISRUPTING PROPERTIES:

This product contains Butylphenyl Methylpropional (allergen, very less concentration) that is included in endocrine disruptor list.

12.7. 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).

SECTION 13: Disposal considerations

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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.

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.

SECTION 14: Transport information

14.1. UN NUMBER:	None
14.2. UN PROPER SHIPPING NAME:	
ADR, IATA, IMDG	None
14.3. TRANSPORT HAZARD CLASS (ES):	None hazardous product
ADR, IATA, IMDG CLASS	None
14.4. PACKING GROUP:	
ADR, IATA, IMDG	N.a.
14.5. ENVIRONMENAL HAZARDS:	
ADR-ENVIROMENTAL POLLUTANT	No data available
MARINE POLLUTANT	No data available
14.6. SPECIAL PRECAUTIONS FOR USER:	None

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14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II

OF MARPOL 73/78 AND THE IBC CODE: Not applicable

TRANSPORT/ADDITIONAL INFORMATION: No

UN "MODEL REGULATION" No

SECTION 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 2020/878 of 18 June 2020 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.

SECTION 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:

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Flam. Liq. 2	Flammable liquid – Category 2
Acute Tox. 2	Acute toxicity – Category 2
Acute Tox. 3	Acute toxicity – Category 3
Acute Tox. 4	Acute toxicity – Category 4
Skin Corr. 1B/C	Skin corrosion – Category 1B/C
Skin Irrit. 2	Skin irritation – Category 2
Skin Sens. 1/1A	Skin Sensitisation – Category 1/1A
Eye Dam. 1	Eye Damage – Category 1
Eye Irrit. 2/2A	Eye irritation – Category 2/2A
Repr. 1B	Reproductive toxicity– Category 1B
Aquatuc Acute 1	Acute aquatic toxicity - Category 1
Aquatic Chronic 1	Chronic aquatic toxicity - Category 1
Aquatic Chronic 3	Chronic aquatic toxicity - Category 3
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal 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.
H331	Toxic if inhaled
H360Fd	May damage fertility. Suspected of damaging the unborn child
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
EUH208	Contains (name of sensitising substance). May produce an allergic reaction.
EUH071	Corrosive to the respiratory tract.

ABBREVIATIONS AND ACRONYMS:

PBT:	persistent, bioaccumulative, toxic
vPvB:	persistent, very bioaccumulative
EC:	European Inventory of Existing Commercial Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

Index No.: International Substance Identification No. (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 Organohalogens

ADR: European Agreement concerning the International Carriage of Dangerous Goods

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

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 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.