



SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY IDENTIFICATION

- 1.1 Product ID:** LAAV RIM CLEANER
Other means of identification:
 No data available
- 1.2 Relevant identified uses of the substance or mixture and uses discouraged:**
 Application identified: Cleaning agent
 Discouraged use: No discouraged uses.
- 1.3 Data concerning the supplier of the safety data sheet:**
 CSG Cleaning Solutions Sp. z o.o.
 Hive.. Komorowicka 39-41
 43-300 Bielsko-Biala
 +48/33 47 111 74
www.laav.eu
 contact@laav.eu
- 1.4 Emergency telephone number:** 112

SECTION 2: HAZARD IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
Regulation 1272/2008 (CLP):
 The classification of this product has been carried out in accordance with Regulation No. 1272/2008 (CLP).
 Acute Tox. 4: Acute toxicity (oral), hazard category 4, H302
 Met. Corr. 1: Metal corrosion inducers, hazard category 1, H290
 Skin Sens. 1: Skin sensitisation, hazard category 1, H317
- 2.2 Marking elements:**
Regulation 1272/2008 (CLP):
 Remark
- Hazard statements:**
 Acute Tox. 4: H302 - Harmful if swallowed.
 Met. Corr. 1: H290 - May corrode metals.
 Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Precautionary statements:**
 Q101: If medical advice is required, show the container or label.
 P102: Keep out of reach of children
 P234: Store only in the original package.
 P261: Avoid inhalation of dust/fume/gas/mist/vapours/spray.
 P264: Wash thoroughly after use.
 P280: Wear protective gloves/protective clothing/eye protection/safety footwear.
 P302+P352: IF IN CONTACT WITH SKIN: Wash with plenty of water.
 P501: Dispose of the contents/container into waste separation tanks present in your municipality.
- Supplementary information:**
 It contains a post-reaction mass of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazol-3-one (3:1).
- Substances that affect classification**
 Sodium mercaptoacetate; Cocamidopropylbetaine
- 2.3 Other risks:**
 The substances used do not meet the PBT/vPvB criteria
 It does not contain endocrine disruptors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.1 Substances:

Not applicable

3.2 Mixture:

Chemical Aqueous mixture based on chemical products for cleaning agents

Ingredients:

In accordance with Annex II to Regulation (EC) No 1907/2006 (point 3), the Product contains:

Identification	Chemical name/classification	Concentration
CAS: 367-51-1 EC: 206-696-4 Index: N/A 01-2119968564-24- REACH: XXXX	Sodium mercaptoacetate ⁽¹⁾ Classes. Regulation 1272/2008 Acute Tox. 3: H301; Acute Tox. 4: H312; Met. Corr. 1: H290; Skin Sens. 1: H317 - Danger	10 - <25 %
	Regulation 1272/2008 Acute Tox. 3: H301; Acute Tox. 4: H312; Met. Corr. 1: H290; Skin Sens. 1: H317 - Danger	
CAS: 112-34-5 EC: 203-961-6 Index: 603-096-00-8 01-2119475104-44- REACH: XXXX	2-(2-butoxyethoxy)ethanol ⁽¹⁾ ATP CLP00 Regulation 1272/2008 Eye Irrit. 2: H319 - Note	2,5 - <10 %
	Regulation 1272/2008 Eye Irrit. 2: H319 - Note	
CAS: 61789-40-0 EC: 263-058-8 Index: N/A 01-2120770501-61- REACH: XXXX	Cocamidopropylbetaine ⁽¹⁾ Classes. Regulation 1272/2008 Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Note	1 - <2,5 %
	Regulation 1272/2008 Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Note	
CAS: 55965-84-9 EC: N/A Index: 613-167-00-5 REACH: N/A	post-reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) ⁽¹⁾ ATP ATP13 Regulation 1272/2008 Acute Tox. 2: H310+H330; Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1C: H314; Skin Sens. 1A: H317; EUH071 - Danger	<1 %
	Regulation 1272/2008 Acute Tox. 2: H310+H330; Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1C: H314; Skin Sens. 1A: H317; EUH071 - Danger	

⁽¹⁾ The substance poses a risk to health or the environment, meets the criteria set out in Commission Regulation (EU) 2020/878

For more information on the hazards of substances, see sections 11, 12 and 16

Other information:

Identification	M-factor	
	post-reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: Not applicable	Hardcore
	Chronic	100

Identification	Specific concentration limit
post-reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: Not applicable	% (m/m) >=0,6: Skin Corr. 1C - H314 0,06<= % by mass <0,6: Skin Irrit. 2 - H315% m/m >=0,6: Eye Dam. 1 - H318 0,06<= % (m/m) <0,6: Eye Irrit. 2 - H319% (m/m) >=0.0015: Skin Sens. 1A - H317

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Symptoms as a result of poisoning may occur only after exposure, so in case of doubt, direct exposure to the chemical product or prolonged malaise, you should consult a doctor and show him the Product Safety Data Sheet.

By inhalation:

The product is not classified as dangerous if inhaled, but nevertheless if symptoms of poisoning are found, it is recommended to remove the victim from the place of exposure and provide him with fresh air and peace of mind. If symptoms persist, seek medical attention.

By skin contact:

May cause an allergic skin reaction. In case of contact with skin, it is recommended to clean the affected area with running water and neutral soap. In case of skin lesions (burning pain, redness, rash, blisters), you should go to the doctor with the Safety Data Sheet.

By contact with the eyes:

Rinse your eyes thoroughly with water at room temperature for 15 minutes. Do not allow the victim to rub or close his eyes. If the victim wears contact lenses, they must be removed unless they are glued to the eye, otherwise further injuries may be caused. In all cases, after washing the injured person, consult a doctor as soon as possible and show him the Product Safety Data Sheet.

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SECTION 4: FIRST AID MEASURES (cont'd)

By swallowing / aspiration:

Call your doctor immediately and show him the Safety Data Sheet. Do not induce vomiting and, if it occurs, keep your head tilted forward to prevent aspiration of the contents of the stomach. If you lose consciousness, do not administer anything orally until you have consulted a doctor. Rinse your mouth and throat, as they were most likely contaminated when swallowed. Provide peace of mind to the victim.

4.2 The most important acute and delayed symptoms and effects of exposure:

Acute and delayed effects of exposure are given in sections 2 and 11.

4.3 Indications for any immediate medical attention and special treatment of the victim:

No data available

SECTION 5: FIRE MANAGEMENT

5.1 Extinguishing agents:

Suitable extinguishing agents:

Non-flammable product under normal conditions of handling, storage and use. In the event of ignition due to improper handling, storage or use, powder fire extinguishers (ABC powder) should preferably be used, in accordance with the Fire Protection Equipment Regulation.

Unsuitable extinguishing agents:

No data available

5.2 Specific hazards of the substance or mixture:

Combustion or thermal decomposition produces reaction sub-products that can be highly toxic and consequently can pose serious health risks.

5.3 Information for the fire brigade:

Depending on the size of the fire, it may be necessary to use complete protective clothing and autonomous breathing equipment. A minimum supply of emergency equipment and means of action (fire blankets, handy first-aid kit) should be available in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and information leaflets describing the procedure in the event of accidents and other emergency situations. Neutralize all sources of ignition. In the event of fire, cool the vessels and tanks used for storing products susceptible to ignition, explosion or explosion of BLEVE due to high temperatures. Do not allow the products used to extinguish the fire to enter the water tank.

SECTION 6: MANAGEMENT OF UNINTENTIONAL RELEASES INTO THE ENVIRONMENT

6.1 Personal precautions, protective equipment and emergency procedures:

For persons not belonging to the assisting staff:

Protect the release of the product, as long as this operation does not pose a danger to the persons performing it. In case of possible contact with spilled product, it is mandatory to wear personal protective equipment (see section 8). Evacuate the site and remove people who do not have adequate protective equipment.

For helpers:

Wear protective clothing. Unsecured persons move to a safe place. See section 8.

6.2 Environmental precautions:

The product is not classified as unsafe. Do not allow contamination of groundwater and surface water, watercourses, soil, sewage systems.

6.3 Methods and materials to prevent the spread of contamination and to clean up contamination:

It is recommended:

Absorb the spilled product with sand or neutral absorbent and transfer it to a safe place. Do not use for absorption of sawdust or other flammable absorbents. Any comments regarding the disposal of the product can be found in section 13.

6.4 References to other sections:

See also p.8 and 13.

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SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1 Precautions for safe handling:

A.- Precautions necessary for safe handling.

When it comes to preventing hazards in the workplace, you should follow the applicable law. Control spills and waste by safe disposal methods (section 6). Do not allow spontaneous release from containers. Keep tidy and clean when handling dangerous products. STORE ONLY IN THE ORIGINAL PACKAGE.

B.- Technical recommendations for the prevention of fires and explosions.

Non-flammable product under normal conditions of handling, storage and use. It is recommended to pour the product slowly so as not to create electrostatic charges that could adversely affect flammable products. Information on conditions and substances to avoid can be found in section 10.

C.- Technical recommendations to prevent toxicological risks.

Do not eat or drink while in contact with the product, wash your hands with a suitable cleaning agent after the procedure.

D.- Technical recommendations to prevent environmental hazards.

It is recommended to store the absorbent material close to the product (see section 6.3)

7.2 Conditions for safe storage, including information on any incompatibilities:

A.- Technical aspects of storage.

Min. temperature: 5 °C
 Max.temp.: 30 °C
 Maximum time: 36 months

B.- General storage conditions.

Avoid sources of heat, radiation and electrostatics. Keep away from foodstuffs. For more information, see section 10.5.

7.3 Specific end use(s):

See section 1.2.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limit values shall be controlled for the following substances:

Journal of Law 2018, item 1286:

Identification	Limit values for environmental quality standards		
	NDS		67 mg/m ³
2-(2-Butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	NDSch		100 mg/m ³

DNEL (Employees):

Identification		Short exposure		Long exposure	
		Systematic	Topical	Systematic	Topical
Sodium mercaptoacetate CAS: 367-51-1 EC: 206-696-4	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	2,06 mg/kg	No data available
	Inhalation route	No data available	No data available	1.41 mg/m ³	No data available
2-(2-Butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	83 mg/kg	No data available
	Inhalation route	No data available	101.2 mg/m ³	67.5 mg/m ³	67.5 mg/m ³
Cocamidopropylbetaine CAS: 61789-40-0 EC: 263-058-8	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	2,33 mg/kg	No data available
	Inhalation route	No data available	No data available	8.22 mg/m ³	No data available

DNEL (population):

Identification		Short exposure		Long exposure	
		Systematic	Topical	Systematic	Topical
Sodium mercaptoacetate CAS: 367-51-1 EC: 206-696-4	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	0.9 mg/kg	No data available
	Inhalation route	No data available	No data available	No data available	No data available

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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION (cont'd)

Identification		Short exposure		Long exposure	
		Systematic	Topical	Systematic	Topical
2-(2-Butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	Oral	No data available	No data available	5 mg/kg	No data available
	Dermal	No data available	No data available	50 mg/kg	No data available
	Inhalation route	No data available	60.7 mg/m ³	40.5 mg/m ³	40.5 mg/m ³
Cocamidopropylbetaine CAS: 61789-40-0 EC: 263-058-8	Oral	No data available	No data available	0,833 mg/kg	No data available
	Dermal	No data available	No data available	0,833 mg/kg	No data available
	Inhalation route	No data available	No data available	1.45 mg/m ³	No data available

PNEC:

Identification				
Sodium mercaptoacetate CAS: 367-51-1 EC: 206-696-4	Wastewater treatment plant	3.2 mg/L	Freshwater	0,038 mg/L
	Soil	No data available	Sea waters	0.0038 mg/L
	Occasional	0.38 mg/L	Sediment (Fresh water)	No data available
	Oral	No data available	Sediment (Sea waters)	No data available
2-(2-Butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	Wastewater treatment plant	200 mg/L	Freshwater	1.1 mg/L
	Soil	0,32 mg/kg	Sea waters	0.11 mg/L
	Occasional	11 mg/L	Sediment (Fresh water)	4.4 mg/kg
	Oral	0,056 g/kg	Sediment (Sea waters)	0,44 mg/kg
Cocamidopropylbetaine CAS: 61789-40-0 EC: 263-058-8	Wastewater treatment plant	300 mg/L	Freshwater	0.0032 mg/L
	Soil	0,0419 mg/kg	Sea waters	0.00032 mg/L
	Occasional	0.02 mg/L	Sediment (Fresh water)	0,219 mg/kg
	Oral	No data available	Sediment (Sea waters)	0,0219 mg/kg

8.2 Exposure control:

A.- Personal protective equipment such as personal protective equipment



As a preventive measure, it is recommended to use protective clothing marked with "CE marking". More information on protective clothing (storage, use, cleaning, maintenance, protection class...) can be found in the information brochure provided by the manufacturer of the protective clothing. The tips here are for a pure product. The directions for the diluted product may vary depending on the degree of dilution, application, method of application, etc. When determining the obligation to install emergency showers and/or eye rinses in warehouses, provisions on the storage of chemical products will be taken into account. Further information can be found in sections 7.1 and 7.2

All information contained in this section - due to the lack of information on the protective equipment in the company's possession - should be considered as a recommendation to prevent hazards in working with the product

B.- Respiratory protection.



In the event of fog or if the maximum concentration is exceeded, respiratory protection will be necessary.

C.- Special hand protection.

Pictogram	Protective equipment	Marking	CEN standards	Comments
 Mandatory hand protection	Gloves to protect against less serious hazards			Gloves should be replaced if there are any signs of damage. During periods of prolonged exposure to the product of professional/industrial users, it is recommended to use CE III gloves in accordance with EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

Since the product is composed of different materials, the strength of the glove cannot be tested in a completely reliable way beforehand, so it must be checked before use.

D.- Eye and face protection.

Pictogram	Protective equipment	Marking	CEN standards	Comments
 Mandatory face protection	Panoramic glasses against splashes and/or spatters		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect regularly as recommended by the manufacturer. It is recommended to use in case of risk of splashing liquid.

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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION (cont'd)

E.- Body protection.

Pictogram	Protective equipment	Marking	CEN standards	Comments
	Workwear			Replace if there are any signs of damage. For prolonged exposure, professional/industrial users are recommended EC III, in accordance with EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994
	Non-slip work footwear		EN ISO 20347:2012	Replace if there are any signs of damage. For prolonged exposure, professional/industrial users are recommended EC III, in accordance with EN ISO 20345:2012 and EN 13832-1:2007

F.- Additional emergency protection measures.

Contingency measures	Standards	Contingency measures	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011 , ISO 3864-4:2011	Eye rinse device	DIN 12 899 ISO 3864-1:2011 , ISO 3864-4:2011

Environmental exposure control:

Under Community environmental law, it is recommended to prevent the product and its packaging from entering the environment. For more information, see section 7.1.

Volatile organic compounds:

In accordance with the requirements of the Journal of Laws 2020, item 1860, this product has the following properties:

VOC (Contents):	0,51 % by weight
VOC concentration 20 °C:	No data available
Average number of carbons:	7
Average molecular weight:	131.69 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties:

For full details, see the product data sheet.

Physical appearance:

State of matter 20 °C:	Liquid
Appearance:	Liquid
Colour:	Different
Odour:	Characteristic
Odour threshold:	No data available *

Volatility:

Boiling point at atmospheric pressure:	102 °C
Vapour pressure 20 °C:	2340 Pa
Vapour pressure 50 °C:	12329.47 Pa (12.33 kPa)
Evaporation rate:	No data available *

Product characteristics:

Density 20 °C:	No data available *
Relative density 20 °C:	No data available *
Dynamic viscosity 20 °C:	No data available *
Kinematic viscosity 20 °C:	No data available *
Kinematic viscosity 40 °C:	No data available *

*No information on product hazards

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Concentration:	No data available *
ph:	≈8 - 9 (for 100 % solution)
Vapour density 20 °C:	No data available *
n-octanol/water partition coefficient 20 °C:	No data available *
Water solubility 20 °C:	No data available *
Solubility degree:	No data available *
Decomposition temperature:	No data available *
Melting/freezing point:	No data available *

Flammability:

Flash point:	Non-flammable (>60 °C)
Flammability (solid, gas):	No data available *
Auto-ignition temperature:	192 °C
Lower flammable limit:	No data available *
Upper flammability limit:	No data available *

Characteristics of molecules:

Median diameter equivalent:	Not applicable
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9.2 Other information:

Information on physical hazard classes:

Explosive properties:	No data available *
Oxidizing properties:	No data available *
Corrosive metals:	H290 May corrode metals.
Heat of combustion:	No data available *
Aerosols - total percentage (by mass) of flammable components:	No data available *

Other safety features:

Surface tension 20 °C:	No data available *
Refractive index:	No data available *

*No information on product hazards

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Non-reactive product in storage and storage conditions. See section 7.

10.2 Chemical stability :

Chemically stable in storage and use conditions.

10.3 Possibility of dangerous reactions:

They do not occur if the product is stored and stored as directed.

10.4 Conditions to avoid:

Use and store at room temperature.

Shock and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidizers	Flammable materials	Other
Avoid strong acids	Not applicable	Precautions	Not applicable	Avoid strong rules

10.6 Hazardous decomposition products:

For detailed treatment of the degradation products, please read sections 10.3, 10.4 and 10.5 Depending on the degradation conditions, complex mixtures of chemicals may be released as a result: carbon dioxide (CO₂), carbon monoxide and other organic compounds. For more information, see section 5.

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SECTION 11: TOXICOLOGICAL INFORMATION

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

There are no experimental data on the toxicological properties of the product.

It contains glycols, the likelihood of dangerous effects on health, so it is recommended not to inhale its vapors for too long a period of time.

Health risks:

In the event of repeated, prolonged exposure or concentrations above the established occupational exposure limits, health side effects may occur depending on the route of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Ingestion of a significant dose of the product may cause throat irritation, abdominal pain, dizziness and vomiting.
- Corrosive/Irritant: Based on the available data, the classification criteria are not met, but the product contains substances classified as hazardous. For more information, see section 3.

B- Inhalation (acute effect):

- Acute toxicity: Based on the available data, the classification criteria are not met, but the product contains substances classified as hazardous if inhaled. For more information see section 3.
- Corrosive/Irritant: If inhaled for prolonged inhalation, the product has a damaging effect on the mucous membranes and upper respiratory tract tissues.

C- Contact with skin and eyes (acute):

- Skin contact: Based on the available data, the classification criteria are not met, but the product contains substances classified as hazardous in contact with the skin. For more information see section 3.
- Contact with eyes: Based on the available data, the classification criteria are not met, but the product contains substances classified as hazardous. For more information, see section 3.

D- CMR effects (carcinogenicity, mutagenicity and reproductive toxicity):

- Carcinogenicity: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous due to the above-mentioned effects. For more information, see section 3.
IARC: Eugenol (3)
- May cause genetic defects: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information, see section 3.
- May harm fertility: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information, see section 3.

E- Sensitizing effects:

- Respiratory: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous due to their sensitizing effects. For more information see section 3.
- Cutaneous: Prolonged skin contact of the product may lead to allergic contact dermatitis.

F- Specific target organ toxicity (STOT) exposure time:

Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information, see section 3.

G- Specific target organ toxicity (STOT), repeated exposure:

- Specific target organ toxicity (STOT), repeated exposure: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information see section 3.
- Leather: Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information, see section 3.

H- Aspiration hazard:

Based on the available data, the classification criteria are not met. The product does not contain substances classified as hazardous. For more information, see section 3.

Other information:

No data available

Detailed toxicological information on substances:

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SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

Identification	Acute toxicity		Kind
	LD50 oral	LD50 cutaneous	
Sodium mercaptoacetate CAS: 367-51-1 EC: 206-696-4	LD50 oral	200 mg/kg	Rat
	LD50 cutaneous	1596 mg/kg	Rat
	LC50 inhalation	No data available	
Cocamidopropylbetaine CAS: 61789-40-0 EC: 263-058-8	LD50 oral	>5000 mg/kg	Rat
	LD50 cutaneous	No data available	
	LC50 inhalation	No data available	
post-reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: Not applicable	LD50 oral	64 mg/kg	Rat
	LD50 cutaneous	87.12 mg/kg	Rabbit
	LC50 inhalation	0.33 mg/L (4 h)	Rat

11.2 Information about other hazards:

Endocrine disrupting properties

It does not contain endocrine disruptors.

Other information

No data available

SECTION 12: ECOLOGICAL INFORMATION

There are no experimental data on the ecotoxicological properties of the mixture itself

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Kind	Kind
	LC50	EC50		
2-(2-Butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	LC50	1300 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	2850 mg/L (24 h)	Daphnia magna	Shellfish
	EC50	53 mg/L (192 h)	Microcystis aeruginosa	Alga
Cocamidopropylbetaine CAS: 61789-40-0 EC: 263-058-8	LC50	No data available		
	EC50	No data available		
	EC50	30 mg/L (72 h)	N/A	Alga
post-reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: Not applicable	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Shellfish
	EC50	>0.1 - 1 mg/L (72 h)		Alga

Long-term toxicity:

Identification	Concentration		Kind	Kind
	NOEC	NOEC		
Cocamidopropylbetaine CAS: 61789-40-0 EC: 263-058-8	NOEC	0.16 mg/L	Oncorhynchus mykiss	Fish
	NOEC	0.9 mg/L	Daphnia magna	Shellfish

12.2 Durability and degradability:

Details of the substance:

Identification	Degradability		Biodegradability	
	BOD5	Cod	Concentration	Period
2-(2-Butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	BOD5	0,25 g O2/g	Concentration	100 mg/L
	Cod	2,08 g O2/g	Period	28 days
	BOD5/COD	0,12	% biodegradable	92 %

12.3 Bioaccumulation capacity:

Details of the substance:

Identification	Bioaccumulation potential	
	BCF	Log POW
2-(2-Butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	BCF	0,46
	Log POW	0,56
	Potential	Low
Cocamidopropylbetaine CAS: 61789-40-0 EC: 263-058-8	BCF	71
	Log POW	
	Potential	Medium

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SECTION 12: ECOLOGICAL INFORMATION (Continued)

12.4 Mobility in soil:

Identification	Absorption/desorption		Variation	
	Blanket		Henry's constant	
2-(2-Butoxyethoxy)ethanol	Blanket	48	Henry's constant	7,2E-9 Pa·m ³ /mol
CAS: 112-34-5	Applications	Very high	Dry soil	No
EC: 203-961-6	Surface tension	3.395E-2 N/m (25 °C)	Moist soil	No
Cocamidopropylbetaine	Blanket	648	Henry's constant	No data available
CAS: 61789-40-0	Applications	Medium	Dry soil	No data available
EC: 263-058-8	Surface tension	No data available	Moist soil	No data available

12.5 PBT and vPvB evaluation results:

Substances used do not meet the PBT/vPvB criteria

12.6 Endocrine disrupting properties:

It does not contain endocrine disruptors.

12.7 Other harmful effects:

Not specified

SECTION 13: WASTE MANAGEMENT

13.1 Waste disposal methods:

Code	Description	Type of waste (Commission Regulation (EU) No 1357/2014)
20 01 29*	detergents containing dangerous substances	Dangerous

Type of waste (Commission Regulation (EU) No 1357/2014):

HP6 Acute toxicity, HP13 Sensitising

Waste administration (disposal and evaluation):

It should be transferred to a specialised disposal undertaking authorised to assess and dispose of waste in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC of the European Parliament and of the Council) and OJ. 2022, item 699. According to code 15 01 (2014/955/EU), if the container is in direct contact with the product, it must be handled in the same way as the product. Otherwise, it must be handled as non-hazardous waste. Its discharge into water courses is discouraged. See section 6.2.

Provisions for waste administration:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), Community or national provisions related to waste administration have been adopted.

Community law: Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014

National law: Act of 13

June 2013 on packaging and packaging waste management (i.e. Journal of Laws of 2020, item 1114 with subsequent amendments).

Act of 14 December 2012 on waste (i.e. Journal of Laws of 2022, item 699).

SECTION 14: TRANSPORT INFORMATION

Ground transport of dangerous goods:

In accordance with the requirements of ADR 2021 and RID 2021:

- Continued on the next page -



SECTION 14: TRANSPORT INFORMATION (Continued)



- 14.1 UN number or ID number:** UN1760
- 14.2 Correct UN shipping name:** CORROSIVE LIQUID MATERIAL L.N.O. (Sodium mercaptoacetate)
- 14.3 Transport hazard class(s):** 8
- Stickers: 8
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for users**
- Special provisions: 274
- Code of tunnel transport restrictions: E
- Physico-chemical properties: see section 9
- Limited quantity: 5 L
- 14.7 Bulk sea transport in accordance with IMO instruments:** No data available

Maritime transport of dangerous goods:

In accordance with the requirements of IMDG 40-20:



- 14.1 UN number or ID number:** UN1760
- 14.2 Correct UN shipping name:** CORROSIVE LIQUID MATERIAL L.N.O. (Sodium mercaptoacetate)
- 14.3 Transport hazard class(s):** 8
- Stickers: 8
- 14.4 Packing group:** III
- 14.5 Marine pollution:** No
- 14.6 Special precautions for users**
- Special provisions: 274, 223
- EmS codes: F-A, S-B
- Physico-chemical properties: see section 9
- Limited quantity: 5 L
- Segregation group: No data available
- 14.7 Bulk sea transport in accordance with IMO instruments:** No data available

Transport of dangerous goods by air:

In accordance with IATA/ICAO 2022 requirements:



- 14.1 UN number or ID number:** UN1760
- 14.2 Correct UN shipping name:** CORROSIVE LIQUID, N.O.S. (Sodium mercaptoacetate)
- 14.3 Transport hazard class(s):** 8
- Stickers: 8
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for users**
- Physico-chemical properties: see section 9
- 14.7 Bulk sea transport in accordance with IMO instruments:** No data available

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SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental legislation specific to a substance or mixture:

Regulation (EU) No 528/2012: contains preservatives to protect the original properties of the products subjected. It contains bronopol (INN), a post-reaction mass of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

Candidate substances for authorisation according to Regulation (EC) 1907/2006(REACH): No data available

Substances present in Annex XIV of REACH (authorisation list) and expiry date: No data available

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: No data available

Article 95, REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL: 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (Group 2, 4, 6, 11, 12, 13) post-reaction mass; Bronopol (INN) (Group 2, 6, REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals No data available

Regulation (EC) No 648/2004 on detergents as amended:

According to this Regulation, the product meets the following criteria:

Surfactants contained in this mixture meet the biodegradability criterion of Regulation (EC) No 648/2004 on detergents. Data that confirm this statement are at the disposal of the relevant authorities of the Member States and will be made available to them on direct request or at the request of the manufacturer of cleaning products.

Labelling concerning the content:

Ingredient	Concentration interval
Anionic surfactants	% by mass < 5
Amphoteric surfactants	% by mass < 5
Fragrance compositions	

Allergenic fragrances: phenylmethanol (BENZYL ALCOHOL).

Preservatives: bronopol (INN) (2-BROMO-2-NITROPROPANE-1,3-DIOL), post-reaction mass of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (METHYLCHLOROISOTHIAZOLINONE / METHYLISOTHIAZOLINONE).

Seveso III:

No data available

Restrictions on the sale and use of certain hazardous substances and mixtures (Annex XVII of REACH, etc...):

Shall not be used in:—decorative

articles intended to produce light or colour effects by means of different phases, e.g., decorative lamps and ashtrays, —tricks and jokes,

—games intended for one or more participants, or articles intended to be used as such, even for decorative purposes.

Specific provisions for the protection of man or the environment:

It is recommended that the information collected in this safety data sheet be used as preliminary data to estimate the local hazard in order to take the necessary steps to prevent the occurrence of risks related to the handling, use, storage and disposal of this product.

Other regulations:



SECTION 15: REGULATORY INFORMATION (Continued)

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 Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended. 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 as amended.

Act of 25 February 2011 on chemical substances and mixtures thereof (i.e. Journal of Laws of 2020, item 2289). **Announcement of the Minister of Economy, Labour and Social Policy of 28 August 2003 on the publication of a uniform text of the Regulation of the Minister of Labour and Social Policy on general provisions of occupational health and safety (Journal of Laws of 2003, No. 169, item 1650, as amended). Regulation of the Minister of Health of 2 February 2011**

on research and measurement of factors harmful to health in the work environment (Journal of Laws No. 33, item 166 of 2011, as amended).

Act of 14 December 2012 on waste (i.e. Journal of Laws of 2022, item 699).

Act of 9 October 2015 on biocidal products (Journal of Laws of 2021, item 24). **Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values for the implementation of Council Directive 98/24/EEC on the protection of the health and safety of workers from the risks related to chemical agents at work.**

Commission Directive 2006/15/EC of

7 February 2006 establishing a second list of indicative occupational exposure limit values for the implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. **Commission Directive 2009/**

161/EU of 17 December 2009 establishing a third list of indicative occupational exposure values for the implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC. Regulation of the Minister of Health of 11 June 2012 on the category of hazardous substances and hazardous mixtures, the packaging of which is equipped with closures hindering opening by children and a tactile warning of danger (i.e. Journal of Laws of 2014 No. 0, item 1604) (deemed repealed).

Rozporządzenie Ministra Gospodarki z dnia 21 grudnia 2005 r. w sprawie podstawowych wymogów dla PPE (Dz.U z 2005, nr 259, poz. 2173) (repealed).

Act of 19 August 2011 on the carriage of dangerous goods (i.e. Journal of Laws of 2021, No. 0, item 756, as amended).

Government Declaration of 22 May 2013 on the entry into force of amendments to the Regulations concerning the International Carriage of Dangerous Goods by Rail (RID), constituting Annex C to the Convention concerning International Carriage by Rail

(COTIF), drawn up in Berne on 9 May 1980 (Journal of Laws of 2013, item 840). **Regulation of the Minister of Economy of 10 October 2013 on the application of restrictions listed in Annex XVII to Regulation 1907/2006 (Journal of Laws of 2018, item 1865).**

Act of 13 June 2013 on packaging and packaging waste management (i.e. Journal of Laws of 2020, item 1114, as amended).

Regulation of the Minister of Economy of 29 January 2013 on restrictions on the production, trade or use of hazardous or hazardous substances and

mixtures and on the marketing or use of products containing such substances or mixtures (i.e. Journal of Laws of 2019, No. 0, item 1226) (deemed repealed). **Regulation (EU) 2019/1148 of the European Parliament and of the**

Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013. **Regulation of the**

Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws of 2020, item 10).

Government Declaration of 18 February 2019 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the international carriage of dangerous goods by road (ADR), drawn up in Geneva on 30 September 1957 (Journal of Laws of 2019, item 769).

Act of 15 May 2015 on substances that deplete the ozone layer and on certain fluorinated greenhouse gases (Journal of Laws of 2020, item 2065). **Regulation of the**

Minister of Health of 30 December 2004 on occupational health and safety related to the occurrence of chemical agents in the workplace (i.e. Journal of Laws of 2016 No. 0, item 1488).

Act of 29 July 2005 on counteracting drug addiction (i.e. Journal of Laws of 2020, item 2050, as amended).

Regulation of the Minister of Health of 24 July 2012 on chemical substances, their mixtures, agents or technological processes with carcinogenic or mutagenic effects in the work environment (i.e. Journal of Laws of 2021, item 2235). Regulation of the

Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286, as amended). **Regulation of the Minister of**

Development of 8 August 2016

on the reduction of emissions of volatile organic compounds contained in certain paints and varnishes intended for painting buildings and their finishing, furnishing and related elements of buildings and these structural elements and in mixtures for vehicle renewal (Journal of Laws of 2016 No. 0, item 1353). **Regulation of the**



SECTION 15: REGULATORY INFORMATION (Continued)

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents for the purpose of adapting Annexes III and VII thereto Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents in to adapt Annexes V and VI to that Regulation (derogation for surfactants) Regulation (EC) No 1336/2008 of the European Parliament and of the Council of 16 December 2008 amending Regulation (EC) No 648/2004 in order to align it with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (OJ L ...). UE L 354 of 31 December 2008)

15.2 Chemical safety assessment:

Chemical safety assessment not performed

SECTION 16: OTHER INFORMATION

Regulations for Safety Data Sheets:

This safety data sheet was created in accordance with Annex II-Guide for persons preparing safety data sheets to Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878)

Changes compared to the previous safety card affecting risk management:

No data available

The texts of the Regulation mentioned in Section 2:

H317: May cause allergic skin reaction

H290: May corrode metals.

H302: Harmful if swallowed.

The texts of the Regulation mentioned in Section 3:

These statements do not refer to the product itself, are for informational purposes only and refer to the individual ingredients appearing in Chapter 3.

Regulation 1272/2008 (CLP):

Acute Tox. 2: H310+H330 - Fatal if in contact with skin or if inhaled.

Acute Tox. 3: H301 - Toxic if swallowed.

Acute Tox. 4: H312 - Harmful in contact with skin.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life, causing long-lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long-lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage

Eye Irrit. 2: H319 - Irritating to eyes.

Met. Corr. 1: H290 - May corrode metals.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Irritating to skin.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Classification process:

Skin Sens. 1: Computational

Method Acute Tox. 4: Computational Method

Advice on staff training:

It is recommended that personnel who will come into contact with this product receive basic occupational safety training in order to facilitate the understanding and interpretation of the safety data sheet and product label.

Main sources of literature:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations used in the text:



SECTION 16: OTHER INFORMATION (Continued)

Classes. Access: ADR supplier classification: International

Convention concerning the Carriage of Dangerous Goods and Goods
 by Road IMDG: International Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization COD:Chemical oxygen demand (COD) BOD
 :Biochemical oxygen demand (BOD) within 5 days

BCF: bioconcentration factor

Log POW: logarithm of the octanol/water partition coefficient

NDS: maximum allowable concentration of

NDSCh: maximum instantaneous concentration EC50: effective concentration (concentration of a
 component at which 50% of organisms show effect within a given time) LD50: median

lethal dose LC50: median lethal concentration

EC50: median effective concentration

PBT: the ability of toxic substances to bioaccumulate

vPvB: very high bioaccumulation capacity of toxic substances

IWO: personal protective equipment

STP: wastewater treatment plants

Henry: solubility of a given component in solution depending on the partial pressure of this component over the EC solution: EINECS
 and ELINCS

number (see also EINECS and ELINCS) EINECS

: European list of existing commercial substances

ELINCS: European List of Notified Chemicals CEN: European Committee for Standardisation

STOT: specific target organ toxicity

Koc: normalised partition coefficient for organic carbon content, determines the degree of absorption of organic matter in soil

DNEL: derived no-altered exposure level

PNEC: predicted no-altered concentration

The information contained in this Safety Data Sheet is based on sources and technical knowledge and applicable legislation at European and national level and its accuracy cannot be fully guaranteed. This information cannot be considered as a guarantee of product characteristics, as it is only a description of safety requirements. The working methods and working conditions of users of this product are beyond our knowledge and control, so it is your responsibility to take appropriate measures to comply with legal requirements regarding the handling, storage, use and disposal of chemical products. The information contained in this Safety Data Sheet relates only to the product concerned, which must not be used for purposes other than those specified therein.

- End of safety datasheet -