

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

1.1. Product identifier

Trade name: MEGAMI Headlight Refresh (cleaner)
Product code: 03135A

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

Relevant identified uses: cleaning agent.
Uses advised against: not determined.

1.3. Details of the supplier of the safety data sheet

Supplier: Nowy Samochód S.A.
Address: ul. Zbyszka Cybulskiego 3, 00-725 Warszawa, PL
Telephone/fax: +48 602-444-356
E-mail address for a competent person responsible for SDS: info@soft99.pl

1.4. Emergency telephone number

112 (general emergency telephone number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Eye Dam. 1 H318, Aquatic Chronic 2 H411

Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms and signal words



Hazardous components placed on the label

Contains: hydrocarbons, C10-C12, isoalkanes, <2% aromatics; alkanes, C14-30; amides, coco, N,N-bis(hydroxyethyl) ; 2,2',2; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

Hazard statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.
P501 Dispose of contents/container to properly labelled waste containers according to national law.

Additional information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Product does not contain components, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

CAS number: — ECHA List number: 923-037-2 Index number: — Registration number: 01-2119471991-29-XXXX	hydrocarbons, C10-C12, isoalkanes, <2% aromatics Flam. Liq. 3 H226, Asp. Tox. 1 H304, Aquatic Chronic 2 H411 EUH066 ¹⁾	15 % ≤ C ≤ 25 %
CAS number: 1344-28-1 EC number: 215-691-6 Index number: — Registration number: —	aluminium oxide The substance is not classified as hazardous.	10 % ≤ C ≤ 20 %
CAS number: 74664-93-0 EC number: — Index number: — Registration number: —	alkanes, C14-30 Asp. Tox. 1 H304	10 % ≤ C ≤ 20 %
CAS number: 56-81-5 EC number: 200-289-5 Index number: — Registration number: —	glycerol The substance is not classified as hazardous.	2 % ≤ C ≤ 5 %
CAS number: 68603-42-9 EC number: 271-657-0 Index number: — Registration number: —	amides, coco, N,N-bis(hydroxyethyl) Skin Irrit. 2 H315, Eye Dam. 1 H318	1 % ≤ C ≤ 4 %
CAS number: 34464-40-9 EC number: 252-053-6 Index number: — Registration number: —	isononane Flam. Liq. 3 H226, Asp. Tox. 1 H304	C ≤ 1 %
CAS number: 24938-91-8 EC number: — Index number: — Registration number: —	poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy- Eye Dam. 1 H318	C ≤ 1 %
CAS number: 111-42-2 EC number: 203-868-0 Index number: 603-071-00-1 Registration number: —	2,2'-iminodiethanol Acute Tox. 4 H302, Skin Irrit. 2 H315, Eye Dam. 1 H318, STOT RE 2 H373	C < 0,5 %

CAS number: 1310-73-2 EC number: 215-185-5 Index number: 011-002-00-6 Registration number: —	sodium hydroxide Skin Corr. 1A H314 <u>Specific concentration limits:</u> Skin Corr. 1A H314: $C \geq 5\%$ Skin Corr. 1B H314: $2\% \leq C < 5\%$ Skin Irrit. 2 H315: $0,5\% \leq C < 2\%$ Eye Irrit. 2 H319: $0,5\% \leq C < 2\%$	$C \leq 0,1 \%$
CAS number: 4719-04-4 EC number: 225-208-0 Index number: 613-114-00-6 Registration number: —	2,2',2 Acute Tox. 4 H302, Skin Sens. 1 H317 <u>Specific concentration limits:</u> Skin Sens. 1 H317: $C \geq 0,1\%$	$C \leq 0,1 \%$
CAS number: 55965-84-9 EC number: — Index number: 613-167-00-5 Registration number: —	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Acute Tox. 3 H301, Acute Tox. 2 H310, Skin Corr. 1C H314, Skin Sens. 1A H317, Eye Dam. 1 H318, Acute Tox. 2 H330, Aquatic Acute 1 H400 (M=100), Aquatic Chronic 1 H410 (M=100) EUH071 ¹⁾ , Note B <u>Specific concentration limits:</u> Skin Corr. 1C H314: $C \geq 0,6\%$ Skin Irrit. 2 H315: $0,06\% \leq C < 0,6\%$ Skin Sens. 1A H317: $C \geq 0,0015\%$ Eye Dam. 1 H318: $C \geq 0,6\%$ Eye Irrit. 2 H319: $0,06\% \leq C < 0,6\%$	$C < 0,0015 \%$

¹⁾ Additional hazard statement.

Full text of each H phrase is given in section 16.

Components according to Regulation on detergents 648/2004/EC as amended:

aliphatic hydrocarbons	15 - < 30 %
anionic surfactants	< 5 %
non-ionic surfactants	< 5 %
preservation agents (Methylchloroisothiazolinone, Methylisothiazolinone, Tris(N-Hydroxyethyl) Hexahydrotriazine)	

SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with skin

Take off contaminated clothing. Wash the exposed parts of the skin thoroughly with water and soap. Consult a doctor if disturbing symptoms appear.

Contact with eyes

Protect non-irritated eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for 10 - 15 minutes. Avoid powerful water stream – risk of cornea damage. Apply a sterile dressing. Immediately consult a ophthalmologist.

Ingestion

Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. In case of spontaneous vomiting, keep the head low to avoid aspiration of gastric contents into the lungs. Consult a doctor immediately, show the packaging or label.

After inhalation

Remove the victim to fresh air, keep warm and at rest. Consult a doctor if disturbing symptoms appear.

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

Contact with skin

The product may cause redness, burning sensation, allergic reaction, skin dryness.

Contact with eyes

The product may cause burning sensation, irritation, tearing, pain, risk of serious damage to eyes, conjunctival redness.

Ingestion

May cause nausea, vomiting, diarrhea. The product, if swallowed or after vomiting, may directly penetrate the lungs and cause severe lung damage (aspiration pneumonia).

After inhalation

High concentration of vapours and mists may cause headaches, dizziness, cough, burning sensation in the throat and nose.

Effects of exposure

There are no known effects other than those mentioned above.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: carbon dioxide, extinguishing powder, extinguishing foam, water spray.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2. Special hazards arising from the substance or mixture

During the fire may produce harmful gases containing e.g. carbon monoxides, nitrogen oxides, other hazardous unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3. Advice for firefighters

Flammable liquid and vapour. Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Vapours are heavier than air, they accumulate in the lower parts of the premises and pose a risk of explosion. Cool down the containers that are endangered by fire with a water spray from a safe distance. Collect used extinguishing media.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. In case of large spills, isolate the exposed area. Do not breathe vapours. Avoid eyes and skin contamination. Caution: risk of slipping on the released product. Eliminate all sources of ignition - do not use an open flame, do not smoke, do not use sparking tools, etc. Use personal protective equipment.

6.2. Environmental precautions

Do not allow the product to get into the sewage system, surface waters and soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3. Methods and material for containment and cleaning up

Small leakage: collect the spilled product with incombustible absorbing materials (e.g. sand, earth, universal binding agents, silica etc.) and place it in waste containers. Treat the collected material as waste. Clean and ventilate the contaminated area.

Large leakage: isolate places where liquid accumulates; pump the collected liquid out.

6.4. Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Provide general and / or local ventilation in the workplace in order to maintain the concentration of the harmful agent in the air below the established limit values. Use personal protective equipment. Before break and after work wash hands carefully. Do not eat, drink and smoke during the work. Avoid eyes and skin contamination. Eliminate sources of ignition - do not use an open flame, do not smoke, do not use sparking tools and clothes made of fabrics susceptible to static electricity.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from incompatible materials (see subsection 10.5). Keep away from foodstuffs and animal feed. Keep away from sources of fire. Smoking, using open fire and sparking tools is prohibited in the warehouse.

7.3. Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limit Values

The product does not contain components subject to exposure controls in the workplace.

Legal Basis: 91/322/EEC as amended, 98/24/EC as amended, 2000/39/EC as amended, 2004/37/EC as amended.

Recommended control procedures

Procedures for monitoring concentrations of hazardous components in the air and procedures for monitoring air purity in the workplace should be applied - if available and justified at a given position - in accordance with the relevant national or European Standards, taking into account the conditions at the site of exposure and the appropriate measurement methods adapted to the working conditions. The mode, type and frequency of tests and measurements should meet the requirements of the appropriate laws.

DNEL and PNEC

Not applicable.

8.2. Exposure controls

Industrial hygiene

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Ensure adequate general and/or local ventilation at the workplace. Do not allow vapours to concentrate in the air and to create concentrations within the limits of explosive properties or exceeding the OEL values. If during work processes there is a risk of clothing fire on the employee - no more than 20 m in a horizontal line from the stations where these processes are performed, emergency showers (safety showers) for washing the whole body and separate showers (showers) for eye washing should be installed.

Individual protection measures

The necessity to use and the selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand protection

Use protective gloves resistant to chemicals according to EN 374. In case of a short exposure, use protective gloves with 2nd or higher level of effectiveness (breakthrough time > 30 min). In case of a long exposure, use protective gloves with 6th level of effectiveness (breakthrough time > 480 min). Select the material for the gloves individually at the workplace.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Body protection

Depending on the performed task, use protective clothing appropriate to the potential hazard. In case of a prolonged contact with the product, use protective clothing made of coated or impregnated fabrics.

Eye protection

Use safety glasses in accordance with EN ISO 16321-1:2022-10.

Respiratory protection

If the OEL value is exceeded, appropriate respiratory protection equipment should be selected, taking into account: the concentration of oxygen in the air, the type of pollutants present in the air and their physical and chemical properties, the location and range of concentrations of harmful substances and gases, working conditions, loads and their duration, air temperature and humidity.

Thermal hazards

Not applicable.

Environmental exposure controls

Prevent direct release to drains/ surface waters. Do not contaminate surface waters and drainage ditches with chemicals or used containers. Released product or uncontrolled spills to surface waters should be reported to appropriate authorities in accordance with local and national legislations. Dispose as chemical waste, in accordance with local and national legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	white
Odour:	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	flammable
Lower and upper explosion limit:	0,3 % vol./6 % vol. (WE: 923-037-2)
Flash point:	> 40 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	9,73 ± 0,5 (25 °C)
Kinematic viscosity:	not determined
Solubility:	not soluble in water
Partition coefficient n-octanol/water (log value):	not applicable
Vapour pressure:	not determined
Density and/or relative density:	1,034±0,02 (25 °C)
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2. Other information

No additional tests.

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is reactive. It does not go under hazardous polymerization. Product's vapours may form explosive mixtures with air. See also subsection 10.3-10.5.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The product reacts exothermically with strong oxidants.

10.4. Conditions to avoid

Avoid heat sources, open flames, sparking tools and direct sunlight.

10.5. Incompatible materials

Avoid contact with following materials: strong oxidants.

10.6. Hazardous decomposition products

Not known.

SECTION 11: Toxicological information

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

Acute toxicity

hydrocarbons, C10-C12, isoalkanes, <2% aromatics	
LC ₅₀ (inhalation, human)	> 5600 mg/m ³ /4h
LD ₅₀ (oral, rat)	> 5000 mg/kg
aluminium oxide [CAS 1344-28-1]	
LC ₅₀ (inhalation, rat)	7,6 mg/l/1h
LD ₅₀ (oral, rat)	> 10000 mg/kg
glycerol [CAS 56-81-5]	
LC ₅₀ (inhalation, rat)	> 5850 mg/m ³ /4h
LD ₅₀ (oral, rat)	27200 mg/kg
2,2'-iminodiethanol [CAS 111-42-2]	
LD ₅₀ (oral, rat)	1100 mg/kg
sodium hydroxide [CAS 1310-73-2]	
LD ₅₀ (oral, rabbit)	325 mg/kg
2,2',2 [CAS 4719-04-4]	
LC ₅₀ (inhalation, rat)	0,338 mg/l/4h
LD ₅₀ (inhalation, rat)	> 4000 mg/kg
LD ₅₀ (oral, rat)	1000 mg/kg

Mixture	
ATE _{mix} (ingestion)	> 2000 mg/kg
ATE _{mix} (skin)	> 2000 mg/kg
ATE _{mix} (inhalation, vapours)	> 20 mg/l
Based on available data, the classification criteria are not met.	

Skin corrosion/irritation

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

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

The product, if swallowed or after vomiting, may directly penetrate the lungs and cause severe lung damage (aspiration pneumonia).

Information on likely routes of exposure

Exposure route: eye exposure, skin exposure, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

See subsection 4.2 of the SDS.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

See subsection 4.2 of the SDS.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

Other information

No data on other hazards.

SECTION 12: Ecological information

12.1. Toxicity

glycerol [CAS 56-81-5]		
LC ₅₀ (fish)	54000 mg/l / 96 h / <i>Oncorhynchus mykiss</i>	method: —

2,2'-iminodiethanol [CAS 111-42-2]		
LC ₅₀ (fish)	460 mg/l / 96 h / <i>Oncorhynchus mykiss</i>	method: —
EC ₅₀ (invertebrates)	30,1 mg/l / 48 h / <i>Ceriodaphnia dubia</i>	method: ASTM Standard E729-80
NOEC (invertebrates)	0,78 mg/l / 21 days / —	method: —
EC ₅₀ (algae)	2,7 mg/l / 72 h / <i>Pseudokirchneriella subcapitata</i>	method: EPA 600/9-78-018
EC ₁₀ (microorganisms)	> 1000 mg/l / 30 minut / —	method: OECD 209

sodium hydroxide [CAS 1310-73-2]		
LC ₅₀ (fish)	< 180 mg/l / 96 h / <i>Gambusia affinis</i>	method: —
EC ₅₀ (invertebrates)	40,4 mg/l / 48 h / <i>Ceriodaphnia</i> sp.	method: —
EC ₁₀ (microorganisms)	161 mg/l / 2 min / —	method: —

2,2',2 [CAS 4719-04-4]		
LC ₅₀ (fish)	16,07 mg/l / 96 h / <i>Danio rerio</i>	method: OECD 203
EC ₅₀ (invertebrates)	11,9 mg/l / 48 h / <i>Daphnia magna</i>	method: OECD 202
EC ₅₀ (algae)	6,66 mg/l / 72 h / <i>Desmodesmus subspicatus</i>	method: OECD 201
EC ₅₀ (microorganisms)	550 mg/l / 30 min / —	method: OECD 209

Mixture		
Toxic to aquatic life with long lasting effects.		

12.2. Persistence and degradability

hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Biodegradable	31,3 %/28 days	method: OECD 301 F
glycerol CAS 56-81-5	Easily biodegradable	94%/24h	method: —
2,2'-iminodiethanol CAS 111-42-2	Easily biodegradable	93%/28 days	method: OECD 301 F
2,2',2 CAS 4719-04-4	Easily biodegradable	90-100%/8 days	method: OECD 301 A

12.3. Bioaccumulative potential

glycerol CAS 56-81-5	log Po/w = -1,75	method: OECD 107
	BCF = —	method: —
2,2'-iminodiethanol CAS 111-42-2	log Po/w = -2,46	method: OECD 107
	BCF = —	method: OECD 107
2,2',2 CAS 4719-04-4	log Po/w = -1,3	method: OECD 107
	BCF = —	method: —

12.4. Mobility in soil

Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5. Results of PBT and vPvB assessment

Product does not contain components, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

12.6. Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

12.7. Other adverse effects

The mixture is not classified as hazardous to the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (eg, global warming potential).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

The waste product should be recovered or disposed of in authorized incineration plants or waste disposal / neutralization plants, in accordance with applicable regulations. Do not empty into drains. The waste code should be given in the place of its formation.

Recommendations for used packaging

Reuse / recycle / eliminate empty containers in accordance with the local legislation. Only completely empty containers can be reused.

EU legal acts: directives of the European Parliament and of the Council: 2008/98/EC as amended and 94/62/EC as amended.

Recommended waste codes

The waste code should be assigned at the place of its formation.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1993

14.2. UN proper shipping name

ADR

FLAMMABLE LIQUID, N.O.S.

[HYDROCARBONS, C10-C12, ISOALKANES, <2% AROMATICS]

IMDG

FLAMMABLE LIQUID, N.O.S.

[HYDROCARBONS, C10-C12, ISOALKANES, <2% AROMATICS]

ICAO/IATA

FLAMMABLE LIQUID, N.O.S.

[HYDROCARBONS, C10-C12, ISOALKANES, <2% AROMATICS]

14.3. Transport hazard class(es)

3

14.4. Packing group

III

14.5. Environmental hazards

ADR yes

IMDG yes

ICAO/IATA yes

14.6. Special precautions for user

Use personal protective equipment according to section 8 when handling the product. Avoid sources of heat and fire.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Additional data

ADR	limited quantity LQ	5 L
	transport category	3
	tunnel restriction code	D/E
IMDG	limited quantity LQ	5 L
	EmS code	F-E, S-E
ICAO/IATA	packing instruction (LQ)	Y344
	limited quantity (LQ)	10 L
	packing instruction, passenger	355
	maximum quantity, passenger	60 L
	packing instruction, cargo	366
	maximum quantity, cargo	220 L

SECTION 15: Regulatory information

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

648/2004/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (as amended).

Directive 2004/37/EC Of The European Parliament and Of The Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/EEC) as amended.

2000/39/EC Commission Directive of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work as amended.

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) as amended.

91/322/ECC Commission Directive of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work as amended.

ADR Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG Code International Maritime Dangerous Goods Code

IATA Dangerous Goods Regulations

1907/2006/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL 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 (as amended).

1272/2008/EC REGULATION 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).

2020/878/EU COMMISSION REGULATION 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.

2008/98/EC DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives (as amended).

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended

2016/425/EU REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The components of the mixture are not included in Annex XVII of the REACH Regulation.

The components of the mixture are not included in Annex XIV of the REACH Regulation.

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures.

SECTION 16: Other information

Full text of H phrases mentioned in section 3

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal 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.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Note B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.

Clarification of abbreviations and acronyms

ADR	Agreement concerning the International Carriage of Dangerous Goods by Road.
DIN	German Institute for Standardization
DNEL	Derived No-Effect Level.
EC ₁₀	A statistically calculated concentration of a chemical substance in an environmental medium that can cause specific effects in 10% of the tested organisms of a given population under certain conditions.
EC ₅₀	(median effective concentration) - statistically calculated concentration of a chemical substance in an environmental medium that can cause specific effects in 50% of the tested organisms of a given population under certain conditions.
EN	European standard
IATA	The International Air Transport Association.
IMDG	International Maritime Dangerous Goods Code.
ISO	International Organization for Standardization
LC ₅₀	Concentration of a substance that is lethal to 50 percent of the organisms in a toxicity test.
LD ₅₀	Dose of a substance that is lethal to 50 percent of the organisms in a toxicity test.
NOEC	The highest concentration that does not cause a statistically significant adverse effect in the exposed population, when compared with its appropriate control.
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, bioaccumulative and toxic substance.
PNEC	Predicted no-effect concentration.
RID	The Regulation concerning the International Carriage of Dangerous Goods by Rail.

vPvB	Very persistent and very bioaccumulative substance.
Acute Tox. 2	Acute toxicity - category 2
Acute Tox. 3	Acute toxicity - category 3
Acute Tox. 4	Acute toxicity - category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute - category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic - category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic - category 2
Asp. Tox. 1	Aspiration hazard - category 1
Eye Dam. 1	Serious eye damage - category 1
Eye Irrit. 2	Eye irritation - category 2
Flam. Liq. 3	Flammable liquid - category 3
STOT RE 2	Specific target organ toxicity — repeated exposure - category 2
Skin Corr. 1A	Skin corrosion - category 1A
Skin Corr. 1B	Skin corrosion - category 1B
Skin Corr. 1C	Skin corrosion - category 1C
Skin Irrit. 2	Skin irritation - category 2
Skin Sens. 1	Skin sensitization - category 1
Skin Sens. 1A	Skin sensitization - category 1A

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Personnel related with the transport of hazardous substances in accordance with the ADR agreement should be trained and should obtain proper certification in a range of their obligations (general training, workplace training, safety training).

Key literature references and sources of data

This SDS was prepared on the basis of the safety data sheet provided by the manufacturer, literature data, online databases (e.g. ECHA, TOXNET, COSING), our knowledge and experience, taking into account the current legislation.

Procedures used for the mixture classification according with Regulation 1272/2008/EC as amended

Flam. Liq. 3 H226	on basis of test data
Asp. Tox. 1 H304	calculation method
Skin Sens. 1 H317	calculation method
Eye Dam. 1 H318	calculation method
Aquatic Chronic 2 H411	calculation method

Additional information

Changes:	—
SDS issued by:	THETA Consulting Sp. z o.o.