

SAFETY DATA SHEET

Prepared in accordance with Regulations (EC) 1907/2006 (REACH) and (EU) 2020/878

WINDOLA CL cutting, drilling and broaching oil



Revised on: 15 May 2024 (Version 14 withdrawn on 14 May 2024)

Issued on: 18 May 1999 Version: 15

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

1.1. Product identifier

Commercial name: WINDOLA CL cutting, drilling and broaching oil

Form of product: mixture

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

Scope of use: Suitable for the working of carbon steels, heat-resistant steels, stainless steels
For industrial and professional use

Uses advised against: use other than the above.

1.3. Details of the supplier of the Material Safety Data Sheet

CLAUDIA CHEMICAL KFT.

9700 Szombathely, Alkotás u. 43-45

Telephone: +36-94-330-570, +36-94-505-645

E-mail, homepage: chemical@claudiart.hu www.claudiart.hu

1.4. Emergency telephone number

Health Toxicological Information Service (ETTSZ)

+36 80 201 199 (24-hour toll-free number – only from within Hungary)

+36 1 476 6464 (24-hour number, regular charges apply – from outside Hungary)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification of mixture in accordance with Regulation (EC) 1272/2008 (CLP):

Identification of product: mixture

Hazard class: not classified

Given that the mixture has a kinematic viscosity at 40 °C of over 20.5 mm²/s, it does not have to be classified even though the asp. tox. component is over 10%.

2.2. Label elements

Commercial name: WINDOLA CL cutting, drilling and broaching oil

GHS Pictogram: not required

Signal word: not required

Hazard statement: not required

Precautionary Statement - Prevention:

P273 Avoid release to the environment.

Precautionary statements - Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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P331 Do NOT induce vomiting.

Precautionary Statement - Dispose of as waste:

P501 Dispose of contents/container as waste: in accordance with Government Decree 225/2015. (VIII.7.) and the Ministerial Decree VM 72/2013 (VIII. 27.)

Further marking or labelling obligation: not required

Palpable symbol warning of hazard: not required

Transport of hazardous goods (ADR in accordance with Government Decree 387/2021. (VI. 30.)): see Section 14.

Supplementary labelling elements: EUH210 — Safety data sheet available on request

2.3. Other hazards

The product does not contain persistent, bioaccumulative and toxic (PBT) components, or very persistent and very bioaccumulative (vPvB) components (within the meaning of Annex XIII to Regulation (EC) 1907/2006) in a concentration of 0.1% or higher.

Endocrine effects: The mixture does not contain any substances toxic to endocrine organs, which are included in the list established in accordance with Article 59 (1).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical properties:

Raffinate mineral oil mixture containing additives improving functional properties.

Components:

30-60% machine lubricant. Hazardous components thereof as per the supplier's material safety data sheet:

Description	EC number	CAS number	Hazard class and category	Hazard statement	Concentration % by weight
Distillates (mineral oil), dewaxed with solvent light paraffinic REACH reg. number: 01-2119480132-48	265-159-2	64742-56-9	Asp. Tox. 1 (Note L:)	H304	max. 95

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Description	EC number	CAS number	Hazard class and category	Hazard statement	Concentration % by weight
Distillates (mineral oil), dewaxed with solvent heavy paraffinic REACH reg. number: 01-2119471299-27	265-169-7	64742-65-0	- (Note L:)	-	max. 10
Distillates (mineral oil), hydrogen cracked, heavy REACH reg. number: 01-2119486951-26	265-077-7	64741-76-0	Asp. Tox. 1 (Note L:)	H304	max. 5
2,6-di-tert-butylphenol REACH reg. number: 01-2119490822-33	204-884-0	128-39-2	Skin irrit. 2 Aquatic acute 1 Aquatic chronic 1	H315 H400 (M=1) H410 (M=1)	max. 0.15
4,4'-Methylenebis-(dibutylthiocarbamate) REACH reg. number: 01-2119708416-41	233-593-1	10254-57-6	Aquatic acute 1 Aquatic chronic 4	H400 (M=10) H413	max. 0.08

For the full text of the H statements, see Section 16.

Components:

30-60% environmentally friendly broaching oil. Hazardous components thereof as per the supplier's material safety data sheet:

Description	EC number	CAS number	Hazard class and category	Hazard statement	Concentration % by weight
Lubricating oils (mineral oil), C18-C40, dewaxed with solvent hydrogen cracked, distillate-based REACH reg. number: 01-2119486987-11	305-594-8	94733-15-0	Asp. Tox. 1 (Note L)	H304	max. 75

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Description	EC number	CAS number	Hazard class and category	Hazard statement	Concentration % by weight
Distillates (mineral oil), dewaxed light paraffinic, hydrogen-treated REACH reg. number: 01-2119488517-24	295-301-9	91995-40-3	Asp. Tox. 1 (Note L)	H304	max. 75
Lubricating oils (mineral oil), C24-C50, solvent-extracted, dewaxed, hydrogen-treated* REACH reg. number: 01-2119489969-06	309-877-7	101316-72-7	- (Note L)	-	max. 15
Lubricating oils (mineral oil), C18-C40, solvent-dewaxed hydrogen cracked, distillate-based* REACH reg. number: 01-2119486987-11	305-594-8	94733-15-0	- (Note L)	-	max. 15
Refined mineral oil mixture*, **		mixture	Asp. Tox. 1 (Note L)	H304	max. 5
Calcium salts of alkyl (C10-16) benzene sulphonic acid derivates*** REACH reg. number: 01-2119492627-25	271-529-4	68584-23-6	Skin sens. 1B	H317	max. 2.5
Calcium salts of petroleum sulphonic acids*** REACH reg. number: 01-2119488992-18	263-093-9	61789-86-4	Skin sens. 1B	H317	<1.0

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Description	EC number	CAS number	Hazard class and category	Hazard statement	Concentration % by weight
Calcium salts of alkyl-mono-(C16-24)-benzene sulphonic acid derivatives REACH reg. number: 01-2119492616-28	274-263-7	70024-69-0	Skin sens. 1B	H317	<1.0
Sulphur dust REACH reg. number: 01-2119487295-27	231-772-6	7704-34-9	Skin irrit. 2	H315	max. 0.5
2,6-di-tert-butyl-para-cresol REACH reg. number: 01-2119555270-46	204-881-4	128-37-0	Aquatic acute 1 Aquatic chronic 1	H400 (M=1) H410 (M=1)	max. 0.1

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London, in which case classification under Title II shall be carried out for those hazard classes or differentiations.

*Note: Has an exposure limit value

** The mixture contains one or more of the following substances:

EC number: 265-157-1 REACH reg. number: 01-2119484627-25

EC number: 265-169-7 REACH reg. number: 01-2119471299-27

EC number: 265-158-7 REACH reg. number: 01-2119487077-29

EC number: 265-159-2 REACH reg. number: 01-2119480132-48

***Specific concentration limit value: Skin sens. 1; C >= 10 - <= 100

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Do not administer fluids orally or induce vomiting to unconscious or cramping victim.

If inhaled: If inhaled, remove the affected person to fresh air. Seek medical attention in the event of complaints.

Remove the affected person to fresh air, consult a doctor if complaints persist.

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Skin: Remove substance off skin by rinsing with water and soap. Victim should seek medical attention in the event of complaints.

Eyes: If in eyes, rinse with plenty of water for 10-15 minutes. Victim should seek medical attention in the event of complaints.

If swallowed: If swallowed, make victim drink water. **Do not induce vomiting.** Seek medical attention.

Protection of the person giving first aid: No specific requirements.

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

May be fatal if swallowed and enters airways.

Long-lasting or repeated contact may cause irritation if on skin or in eyes, depending on personal sensibility.

May cause an allergic reaction.

The mist/vapour liberated from the products may cause irritation to airways.

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

If swallowed, seek medical advice immediately.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguishing foam, carbon-dioxide, powder

Unsuitable extinguishing media: Water jet

5.2. Special hazards assigned to the substances or mixtures

Carbon-monoxide, carbon -dioxide, different hydrocarbons and soot may be formed during combustion.

5.3. Recommendation for firefighters

Specific firefighter protective equipment: According to the existing fire-fighting regulations, breathing apparatus.

Additional guidance: Do not discharge the contaminated fire extinguishing water into the drains. Collect separately. Dispose of contaminated fire extinguishing water in accordance with the applicable requirements.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautionary measures: See Section 8. Danger of slipping on leaked out/spilled product.

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6.2. Environmental precautions

Contain spillage by bunding to avoid release into waters, soil and drains. Notify competent authorities

6.3. Methods and materials for containment and cleaning up

Spillage on soil: Remove all ignition sources from the vicinity of the spillage. Pump up spillage. Use absorbent materials (e.g. sand, soil, ground limestone) to soak up spillage. Spillages soaked up must be handled as hazardous waste.

Spillage into fresh water: notify the competent authorities. Use sweeping compounds to remove spillage from the water surface.

6.4. Reference to other sections

Personal protective equipment: See Section 8.

Management of hazardous waste: see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

General requirements of the use of cooling lubricants and flammable liquids must be met. Keep away from open flame, and other ignition sources.

Avoid skin and eye contact, and prolonged inhalation of oil vapour or oil mist.

Washing facilities after work and before breaks must be ensured. P363 Wash contaminated clothing before reuse.

When using the substance, do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: not indicated

When opening the container or plastic bottle, or whilst using it, mixture may splash out on skin and in eyes, its vapours may be inhaled. So handle and open containers, plastic bottles always with caution.

Safety precautions regarding chemical substances must be observed.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions should meet the requirements on storing flammable liquids.

Store in a dry, well-ventilated place protected from precipitation, away from highly oxidizing compounds in the original, closed container.

Keep away from open flame, and other ignition sources.

Storage temperature: max. 40 °C

7.3. Specific end use(s)

Oil for industrial drilling, cutting, broaching operations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Air concentration limit value permissible at the place of work:

(Mineral) oil mist: HR (high risk) limit: 5 mg/m³

Recommended test method: NIOSH 5026 (pursuant to EüM-SzCsM Ministerial Decree 25/2000)

8.2. Exposure controls

Personal protective equipment: (Protective equipment should be certified by an organisation holding the licence to do so (Act XCIII of 1993 on Labour Safety)).

a) eye/face protection: Safety goggles if there is a splashing risk (MSZ EN 166).

b) skin protection:

i. hand protection: oil-resistant gloves (as per MSZ EN 374, BDZ Breakthrough time: >480 minutes; permeation performance: 6; PR breakthrough rate: 0). Note: When selecting adequate gloves, consider also the manufacturer, not only the material of the gloves. The permeation time, breakthrough factor, breakthrough time and durability may vary depending on the manufacturer, therefore the gloves selected should be tested for their intended use.

ii. other protective clothing (oil and dirt repellent).

c) respiratory protection: Not necessary under normal conditions. If the exposure limit is exceeded, use respiratory protection fitted with adequate filter insert.

d) thermal hazard: no data available.

Environmental exposure controls: Do not discharge into soil, ground water, surface waters, drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid
Colour:	reddish-brown
Odour:	characteristic, not unpleasant mineral oil odour
pH:	not applicable
Density:	868.6 kg/m ³ (at 15 °C)
Flash point:	195 °C
Pour point:	-18 °C
Solubility in water:	not soluble
Solubility in other solvents:	petrol, petroleum, toluene
Kinematic viscosity:	> 20.5 mm ² /s (at 40 °C)

9.2. Other information:

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Hazard unknown

10.2. Chemical stability

Stable if handled and stored properly.

10.3. Possibility of hazardous reactions

Hazardous reaction unknown

10.4. Conditions to avoid

Direct heat and ignition sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products when used as intended. Carbon-monoxide, carbon-dioxide, and soot may be formed during combustion.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Oral: LD₅₀ (on rats): > 2,000 mg/kg (component data)
Dermal: LD₅₀ (on rabbits): > 2,000 mg/kg (component data)
Inhalation: no data available

Components:

Distillates (mineral oil), solvent-dewaxed light paraffinic (CAS: 64742-56-9)

Oral: LD₅₀ (rats) > 5,000 mg/kg (data from literature)
Dermal: LD₅₀ (rabbits) > 2,000 mg/kg (data from literature)
Inhalation: LC₅₀ (rats) > 5.53 mg/L (4 hours) (data from literature)

Distillates (mineral oil), hydrogen cracked, heavy (CAS: 64741-76-0)

Oral: LD₅₀ (rats) > 5,000 mg/kg (OECD TG 401)
Dermal: LD₅₀ (rabbits) > 2,000 mg/kg (OECD TG 402)
Inhalation: LC₅₀ (rats) > 5,000 mg/kg (OECD TG 403)

Distillates (mineral oil), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

Oral: LD₅₀ (rats) > 5,000 mg/kg (data from literature)
Dermal: LD₅₀ (rabbits) > 2,000 mg/kg (data from literature)
Inhalation: LC₅₀ (rats) > 5.53 mg/L (4 hours) (data from literature)

2,6-di-tert-butylphenol (CAS: 128-39-2)

Oral: LD₅₀ (rats) > 5,000 mg/kg
Dermal: LD₅₀ (rabbits) > 10,000 mg/kg

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4,4'-methylenebis-(dibutyldithiocarbamate) (CAS: 10254-57-6)

Oral: LD₅₀ (rats) 16,000 mg/kg OECD 401

Dermal: LD₅₀ (rabbits) > 2,000 mg/kg (OECD 402)

Lubricating oils (mineral oil), C18-C40, solvent-dewaxed, hydrogen-cracked, distillate-based

Oral: LD₅₀ (rats) > 5,000 mg/kg

Dermal: LD₅₀ (rabbits) > 2,000 mg/kg

Inhalation: LC₅₀ (rats) > 5.53 mg/L

Distillates (mineral oil), dewaxed light paraffinic, hydrogen-treated

Oral: LD₅₀ (rats) > 5,000 mg/kg

Dermal: LD₅₀ (rabbits) > 2,000 mg/kg

Inhalation: LC₅₀ (rats) > 5.53 mg/L

Lubricating oils (mineral oil), C24-C50, solvent-extracted, de-waxed, hydrogen-treated

Oral: LD₅₀ (rats) > 5,000 mg/kg

Dermal: LD₅₀ (rabbits) > 2,000 mg/kg

Inhalation: LC₅₀ (rats) > 5.53 mg/L

Calcium salts of petroleum sulphonic acids

Oral: LD₅₀ (rats) > 5,000 mg/kg (OECD 401)

Dermal: LD₅₀ (rabbits) > 4,000 mg/kg (OECD 402)

Calcium salts of alkyl-mono-(C16-24)- benzene sulphonic acid derivates

Oral: LD₅₀ (rats) > 2,000 mg/kg

2,6-di-tert-butyl-para-cresol

Oral: LD₅₀ (rats) > 5,000 mg/kg

Dermal: LD₅₀ (rats) > 5,000 mg/kg

Irritation - corrosive effect

Skin corrosion/irritation: not irritant (based on components)

Serious eye damage/irritation: not irritant (based on components)

Respiratory or skin sensitization: non-sensitizing (based on components), but it may cause an allergic reaction.

Other information, specific effects:

Note L: In accordance with Regulation (EC) 1272/2008, the classification as a carcinogen need not apply because it can be shown that the substance(s) contain(s) less than 3 % DMSO extract as measured by IP 346.

Germ cell mutagenicity: not known, not mutagen (based on components)

Carcinogenicity: not known, not carcinogenic (based on components)

Reproduction toxicity: not known, no reproductive toxicity (based on components)

STOT-single exposure: not classified

STOT-repeated exposure: not classified

Aspiration hazard: not classified

11.2. Information on other hazards

The mixture does not contain substances with endocrine-disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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SECTION 12: Ecological information

12.1. Toxicity: No data available on the product.

Components

Lubricating oils (mineral oil), C18-C40, solvent-dewaxed, hydrogen-cracked, distillate-based

Fish: LC50 >100 mg/L

Daphnia: EC50 >100 mg/L

Other aquatic organisms: EC50 >100 mg/L

Other aquatic life: TLM >1 mg/L

Distillates (mineral oil), dewaxed light paraffinic, hydrogen-treated

Fish: LC50 >100 mg/L

Daphnia: EC50 >100 mg/L

Other aquatic organisms: EC50 >100 mg/L

Other aquatic life: TLM >1 mg/L

Lubricating oils (mineral oil), C24-C50, solvent-extracted, de-waxed, hydrogen-treated

Fish: LC50 >100 mg/L

Daphnia: EC50 >100 mg/L

Other aquatic organisms: EC50 >100 mg/L

Other aquatic life: TLM >1 mg/L

Calcium salts of petroleum sulphonic acids

Fish (*Cyprinodon variegatus*): LC50 >10,000 mg/L (96 hrs) (OECD 203)

Daphnia (*Daphnia magna*): EC50 >100 mg/L (48 hrs) (OECD 202)

Algae (*Scenedesmus subspicatus*): EbC50 >100 mg/L (72 hrs) (OECD 201)

Algae (*Scenedesmus subspicatus*): ErC50 >100 mg/L (OECD 201)

2,6-di-tert-butyl-para-cresol

Fish (*Danio rerio*): LC50 0.57 mg/L 96 hrs

Daphnia (*Daphnia magna*): EC50 0,17 mg/L 48 hrs

Daphnia (*Daphnia magna*): NOEC > 0.39 mg/L 21 days

Algae (*Scenedesmus subspicatus*): IC50 0.42 mg/L 72 hrs

Distillates (mineral oil), solvent-dewaxed light paraffinic (CAS: 64742-56-9)

Fish: LC50 >100 mg/L

Other aquatic organisms: EC50 >100 mg/L

Algae: ErC50 >100 mg/L

Crustacea: NOEC >1 mg/L

Distillates (mineral oil), hydrogen cracked, heavy (CAS: 64741-76-0)

Fish: LL50 >100 mg/L 96 hrs

Invertebrates: EL50 >10,000 mg/L 48 hrs

Fish: NOEL ≥ 100 mg/L (OECD 203)

Invertebrates: NOEL ≥ 1000 mg/L (OECD 202)

Algae: NOEL ≥ 100 mg/L 72 hrs (OECD 201)

Distillates (mineral oil), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

Fish: LC50 > 100 mg/L (data from literature)

Daphnia: EC50 > 100 mg/L (data from literature)

Other aquatic organisms: EC50 > 100 mg/L (data from literature)

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Algae: ErC50 > 100 mg/L (data from literature)
Other aquatic life: TLM >1 mg/L (data from literature)
2,6-di-tert-butylphenol (CAS: 128-39-2)
Fish (Oncorhynchus mykiss): LC50 13 mg/L 96 hrs
Fish (Pimephales promelas): LC50 1.4 mg/L 96 hrs
Daphnia: EC50 0.45 mg/L 48 hrs
Bacteria: EC50 >1,000 mg/L 3 hrs
4,4'-methylenebis-(dibutyldithiocarbamate) (CAS: 10254-57-6)
Fish (Oncorhynchus mykiss): LC50 >0.06 mg/L (96 hrs) (OECD 203)
Daphnia magna: EC50 >0.052 mg/L (48 hrs) (OECD 202)
Algae (Scenedesmus subspicatus): NOEC >0.033 mg/L (72 hrs) (OECD 201)
Fish (Pimephales promelas): NOEC > 0.2 mg/L 28 days (OECD 210)
Daphnia magna: NOEC > 0.247 mg/L 21 days (OECD 211)

12.2. Persistence and degradability No data available

Biological degradability: Hydrocarbons are fundamentally degradable.

Calcium salts of petroleum sulphonic acids 8.6% (672 hrs)

2,6-di-tert-butyl-para-cresol 4.5% (OECD 310C)

12.3. Bioaccumulative potential

2,6-di-tert-butyl-para-cresol: Bioaccumulative is possible.

2,6-di-tert-butylphenol (CAS: 128-39-2) LogPow: 4.92 (high).

12.4. Mobility in soil

Mobility in soil: Substance is adsorbed on soil particles, loses mobility.

Mobility in water: Floats on water.

12.5. Results of PBT and vPvB assessment

The product does not contain PBT or vPvB substances.

12.6. Endocrine disrupting properties

The product does not contain any substance with endocrine disrupting properties at concentrations of 0.1% or more.

12.7. Other adverse effects

Heavy metal content: None.

PCB, PCT and chlorinated CH: None.

Effect on the environment: If spilled in large quantity, the substance can be harmful for the environment, as it forms a film on the water surface, causing impaired oxygen transfer.

Water hazard class (German): WGK 1 (as per AwSV)

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product waste:

The product waste and the spent product should be treated as hazardous waste. The provisions of Government Decree no. 225/2015 (VI. 7) and the ministerial decree VM 72/2013 (VIII. 27.) apply.

Waste code: 13 02 05*

Petrol-based engine, gear and lubricant oils without chloride compounds

Recommended method of waste treatment: incineration.

Packaging waste: Packaging containing residues must also be handled as hazardous waste, in compliance with the requirements of the above Government Decree, EU and relevant national legislation.

Waste code: 15 01 10*

Packaging containing residues of or contaminated by hazardous substances.

Waste water: The quality of the waste water produced during normal use should meet the requirements in Government Decree 220/2004 (VII. 21.), and in ministerial decree KvVM 28/2004 (XII. 25.) when discharged into fresh water, and public drains.

SECTION 14: Transport information

Land transport: [ADR: Government Decree 178/2017 (VII. 5.)]

Road/Railway ADR/RID: Not subject to ADR/RID.

Waterways: Inland waterways/Sea transport ADN/IMDG: Not applicable to the product.

Air transport: ICAO/IATA: Not applicable to the product.

14.1. UN number: not classified

14.2. Description: not classified

14.3. Transport hazard class(es): not classified

14.4. Packing group: not classified

14.5. Environmental hazards: not classified

14.6. Special precautions for user: no classified

SECTION 15: Regulatory information

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

Regulation (EU) 2019/1021/EU (on substances that deplete the ozone layer): not subject to Regulation

Regulation (EC) 1005/2009/EK (on persistent organic pollutants): not subject to Regulation ministerial decree ITM 5/2020 (II. 6.) on the protection of the health and safety of workers exposed to chemical risks

REACH Regulation (EC) 1907/2006 and its amendments ((EC) 987/2008; (EC) 134/2009; (EC) 552/2009; (EU) 453/20010; (EU) 2015/830), and

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

CLP Regulation: (EC) 1272/2008 and 790/2009.

15.2. Chemical safety assessment

No chemical safety assessment was made regarding the product.

SECTION 16: Other information

The information given in this data sheet is based on our best knowledge at the time of publication, and it is intended to assist the safe transport, handling and use of the product. The information is related only to this product. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract. The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. Please note that it is the responsibility of the user to keep regulatory precautions and observe recommendations for the safe use of the product.

Classification of the mixture within the meaning of Regulation (EC) 1272/2008/EK (information evaluation method): Not classified.

Complete text of the H and P statements in this Safety Data Sheet, and the Hungarian description of the hazard classes

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction

H400 Very toxic to aquatic life.

H410 Toxic to aquatic life with long lasting effects.

H 413 May cause long lasting harmful effects to aquatic life.

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P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P501 Dispose of contents/container as waste: in accordance with Government Decree 225/2015. (VIII.7.) and the Ministerial Decree VM 72/2013 (VIII. 27.)

Asp. Tox. 1 Aspiration hazard Category 1

Skin irrit. 2 Skin corrosion/irritation, Category 2

Skin sens. Skin sensitising, hazard category 1B

Aquatic Acute 1 Hazardous to the aquatic environment — Acute, category 1

Aquatic Acute 1 Hazardous to the aquatic environment — Chronic, category 1

Aquatic Acute 4 Hazardous to the aquatic environment — Chronic, category 4

Legend to abbreviations and acronyms used in the safety data sheet:

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

AC value: permissible average concentration

ATE (Acute Toxicity Estimate)

BCF (Bioconcentration factor)

BOD: Biological oxygen demand: the amount of dissolved oxygen (DO) consumed by aerobic bacteria growing on the organic material present in a water sample.

Bw (Body Weight)

C&L (Classification and Labelling)

CAS (Chemical Abstracts Service)

Cmax: permissible peak concentration

CLP (Classification, Labelling and Packaging) (Regulation EC 1272/2008) CMR (Carcinogenic, Mutagenic or toxic to Reproduction)

CSA (Chemical Safety Assessment)

CSR (Chemical Safety Report)

DMEL (Derived Minimal Effect Level)

DNEL (Derived No Effect Level)

ECHA (European Chemicals Agency)

Ec_x (Effective Concentration x%) EC_x means the concentration of the given substance associated with x% response (e.g. in growth) over a specific time interval.

Er₅₀ EC₅₀ in terms of reduction of growth rate; Ec_x in terms of inhibition of reproduction rate.

Ed_x (Effective Dose x%) Effective dose 10%. Ed_x is the dose of the given substance associated with 10% response over a specific time interval.

EC European Community

EU number The three European lists of substances used under the previous EU regulatory framework, the EINECS, the ELINCS and the NLP list are now jointly referred to as the EU List.

ELINCS (European List of Notified Chemical Substances) ES (Exposure Scenario)

IARC (International Agency for Research on Cancer)

IATA (International Air Transport Association)

IMDG (International Maritime Dangerous Goods)

COD: Chemical oxygen demand. An indicative measure of the amount of oxygen that required to chemically degrade organic and inorganic substances in water.

LC_x (Lethal Concentration x%)

LD_x (Lethal Dose x%)

LOAEC (Lowest Observed Adverse Effect Concentration)

LOAEL (Lowest Observed Adverse Effect Level) LOAEC (Lowest Observed Effect Concentration) LOAEL (Lowest Observed Effect Level) Cmax: permissible maximum concentration

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NOEC (No observed effect concentration)

NOEL (No observed effect Level)

NLP (No-Longer Polymer)

NOAEL (No Observed Adverse Effect Level)

OECD Organisation for Economic Cooperation and Development

REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals)

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SVHC (Substance of Very High Concern)

UVCB (substance of unknown or variable composition, complex reaction products or biological materials)VOC

(Volatile organic compounds)

vPvB (Very Persistent and very Bio-accumulative)

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Revisions indicators:

Version 8: Revision

Version 9: preparation in accordance with Regulation EC 1907/2006

Version 10: preparation in accordance with Regulation (EU) 453/2010

Version 11: preparation in accordance with Regulation (EU) 2015/830/2015

Version 12: revision, extension

Version 13: recast of safety data sheet in accordance with Regulation EU 2020/878, amended sections: 1, 2, 3, 13, 15, 16

Version 14: Section 15.1: updated legal references

Version 15: Section 12.6: introduction of endocrine disruption hazard class