

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

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

1.1. Product identifier BARVOJED
Substance / mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

Removal of paints and coatings

The use descriptors

IS Use at industrial sites

PW Widespread use by professional workers

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	NOVATO
Address	Uralská 770/6, Praha, 160 00 Czech Republic
Identification number (CRN)	62910370
VAT Reg No	CZ62910370
Phone	+420 233 339 688
E-mail	petr.johanides@novato.cz
Web address	www.novato.cz

Competent person responsible for the safety data sheet

Name	ABITEC
E-mail	info@abitec.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 2, H225

Eye Irrit. 2, H319

Most serious adverse physico-chemical effects

Highly flammable mixture. Keep away from heat sources, avoid contact with open flames, heat sources, sparks and static electricity build-up. Use non-sparking tools. Do not expose to direct sunlight. Don't smoke. Thermal decomposition releases dangerous fumes. The mixture is volatile.

Most serious adverse effects on human health and the environment

The mixture irritates the eyes (redness, burning in the eyes, lacrimation, conjunctivitis). Long-term inhalation exposure may lead to headaches or nausea. Prolonged or repeated exposure may cause skin dryness. Ingestion may cause abdominal pain, indigestion and nausea. Vomiting and diarrhea may occur. Avoid contact with eyes and skin. Ensure against confusion with drinks. The mixture is not classified as harmful to the aquatic environment. Follow the instructions for use to avoid risks to people and the environment. The mixture must not get into the soil, underground or surface water or sewage system. Dispose of the empty packaging as hazardous waste. The full wording of the classification and H phrases is given in Sect. 16 of this safety data sheet.

SAFETY DATA SHEET

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

2.3. Other hazards

Neither the mixture nor its components meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances in accordance with Annex XIII, nor have they been included in the list drawn up in accordance with Article 59, paragraph 1, due to the content of endocrine disruptors, nor has it been determined as a substance with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 605-017-00-2 CAS: 646-06-0 EC: 211-463-5	1,3-dioxolane	<70	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 10 %	
CAS: 109-87-5 EC: 203-714-2	dimethoxymethane	<25	Flam. Liq. 2, H225	
Index: 603-001-00-X CAS: 67-56-1 EC: 200-659-6	methanol	<2	Flam. Liq. 2, H225 Acute Tox. 3, H301+H311+H331 STOT SE 1 (**), H370 Specific concentration limit: STOT SE 1, H370: C ≥ 10 % STOT SE 2, H371: 3 % ≤ C < 10 %	1, 2, 3
EC: 919-857-5	Hydrocarbons C9-C11, n-alkanes, isoalkanes, cycloalkanes, < 2% aromatic hydrocarbons	<2	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Specific concentration limit: Asp. Tox. 1, H304: C ≥ 10 % STOT SE 3, H336: C ≥ 10 %	1

Notes

- ** another exposure route cannot be ruled out
- 1 A substance for which exposure limits are set.
 - 2 Substance for which biological limit values exist.
 - 3 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

SECTION 4: First aid measures

4.1. Description of first aid measures

In the event of health problems or in case of doubt, consult a doctor and provide him with the information from this safety data sheet. In case of life-threatening conditions, perform resuscitation. Place the unconscious person in a stable position and do not give anything by mouth. Avoid catching cold. Do not induce vomiting. In case of spontaneous vomiting, prevent inhalation of vomitus. If a burn occurs during a fire, cool the burn with cold water and cover with a clean cloth.

If inhaled

If inhalation occurs, leave the area, rinse the oral cavity with water, breathe fresh air. Seek medical attention if breathing difficulties occur.

If on skin

If clothing becomes contaminated, remove clothing. Wash affected skin with lukewarm water and soap. Treat with a regenerating cream.

If in eyes

If the victim wears contact lenses, remove them. Rinse wide open eyes, especially the area under the lids, with a large amount of clean, lukewarm water. Rinse for at least 15 min., seek medical treatment.

If swallowed

Do not induce vomiting. In case of spontaneous vomiting, prevent inhalation of vomitus. Rinse the mouth with water, drink a glass of water (only if the victim is conscious). Seek medical attention immediately and present this safety data sheet.

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

If inhaled

Long-term inhalation exposure may lead to headaches or nausea.

If on skin

Prolonged or repeated exposure may cause skin dryness.

If in eyes

The mixture irritates the eyes (redness, burning in the eyes, lacrimation, conjunctivitis).

If swallowed

Ingestion may cause abdominal pain, indigestion and nausea. Vomiting and diarrhea may occur.

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

In the case of the usual use of the mixture and following the instructions in the instructions for use, immediate medical assistance is not required. Special treatment is required if symptoms of a certain degree occur, according to the data in sections 4.1 and 4.2; is symptomatic.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Multipurpose powders, CO₂, foam, water mist, sand.

Unsuitable extinguishing media

Full stream of water. Splattered water can be used to cool packages near the fire.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapor. Incomplete combustion or thermal decomposition can produce toxic gases (CO_x, smoke, heavy smoke, etc.). Do not inhale decomposition products. Vapors are heavier than air, accumulate in lower positions, can spread over long distances. They can form an explosive mixture when mixed with air. Risk of re-ignition. At higher temperatures, there is a risk of the container rupturing due to the development of steam.

5.3. Advice for firefighters

Isolation breathing apparatus and non-flammable intervention suit. Use non-sparking tools. Cool closed containers with the mixture near the fire with water spray or cover with foam. Prevent combustion residues and water from entering sewers or water sources.

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BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent the entry of unauthorized persons, secure and mark the escape area. Ensure sufficient ventilation or exhausting indoor spaces, do not inhale the sprayed mixture or vapors. Eliminate possible sources of ignition, do not smoke, do not handle open flames, do not expose to direct sunlight. Use non-sparking tools. Avoid contact with skin and eyes - use personal protective equipment.

6.2. Environmental precautions

Secure the escape area, prevent leakage into sewers, soil, surface and ground water. In the event of a large liquid leak, monitor NPK or TLV concentrations and inform the relevant state authorities and stream or sewer managers.

6.3. Methods and material for containment and cleaning up

Stop the leak. In the event of a large liquid leak, pump out the mixture. In the event of a small leak, cover with a non-flammable sorbent (sand, diatomaceous earth, soil, universal sorbent, etc.), store the used sorbent in a closable waste container, mark and dispose of it as hazardous waste. Eliminate possible sources of ignition during handling. Wash the contaminated area, do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure sufficient ventilation or extraction of the working space. Avoid contact with open flames and other sources of ignition. Protect from direct sunlight. Prevent the formation of gases and vapors in flammable or explosive concentrations and concentrations exceeding the highest permissible concentration (NPK-P) for the working atmosphere. Use non-sparking tools and grounded pipes, avoid electrostatic charge. Protect the eyes and skin, do not inhale the sprayed mixture or vapors, use personal protective equipment according to sec. 8. Observe the applicable safety and health regulations. Observe the principles of hygiene when working with chemicals, do not eat, drink or smoke while working. Wash your hands with warm soapy water before breaks, meals and after work. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store tightly closed in the original packaging in a dry, cool and well-ventilated place. Store separately from flammables. Follow the general regulations on the storage of combustibles. Store away from heat sources, protect from direct sunlight, do not smoke. Store separately from food, drink and feed. Follow the directions on the label.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Czech Republic	Government Regulation 330/2023 Coll.		
Substance name (component)	Type	Value	Note
methanol (CAS: 67-56-1)	PEL	250 mg/m ³	skin penetration is significantly involved during exposure
	PEL	188 ppm	
	NPK-P	1000 mg/m ³	
	NPK-P	751 ppm	
Hydrocarbons C9-C11, n-alkanes, isoalkanes, cycloalkanes, < 2% aromatic hydrocarbons	PEL	400 mg/m ³	
	NPK-P	1000 mg/m ³	

SAFETY DATA SHEET

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value	Note
methanol (CAS: 67-56-1)	OEL 8 hours	260 mg/m ³	Skin
	OEL 8 hours	200 ppm	

Biological limit values

Czech Republic

Decree No. 107/2017 Coll.

Name	Parameter	Value	Tested material	Time of sampling
methanol (CAS: 67-56-1)	methanol	15 mg/l	Urine	End of shift
		0,47 mmol/l		

DNEL

BARVOJED					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	19 mg/m ³			
Workers	Dermal	4.1 mg/kg bw/day			
Consumers	Inhalation	5.7 mg/m ³			
Consumers	Dermal	0.8 mg/kg bw/day			
Consumers	Oral	75 mg/kg bw/day			

Other information of limit values

Biological limits (according to Decree 432/2003 Coll., as amended): Methanol: 15 mg/l methanol (end of shift)

8.2. Exposure controls

Ensure sufficient ventilation, or extraction of the working space. In case of exceeding the limits for the working atmosphere, use appropriate respiratory protection. Avoid contact with skin and eyes, do not inhale the sprayed mixture or vapors. Observe hygienic measures for working with chemicals. Do not eat, drink or smoke while working. Wash your hands with warm soapy water before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

Closed safety glasses.

Skin protection

Skin protection: Protective work clothing made of natural fibers or synthetic fibers resistant to high temperatures; remove contaminated clothing, wash before further use. Protective gloves (material when splashed, e.g. viton 0.7 mm, penetration time > 120 min.; butyl 0.7 mm, penetration time > 480 min.). When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Replace damaged gloves.

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

Respiratory protection

In case of insufficient ventilation and long-term exposure, use a respirator, or mask with filter against organic vapors and aerosols, type A.

Thermal hazard

The boiling point of dimethoxymethane is approx. 42 °C. At higher temperatures, vapors may develop and the package may be overpressurized.

Environmental exposure controls

Observe the usual environmental precautions. Avoid leakage into sewers, underground and surface water and soil.

More information

Ensure compliance with Government Regulation 361/2007 Coll., which establishes conditions for health protection at work, as amended, and fulfill the obligations contained therein.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid (Gel)
Colour	green
Odour	characteristic
Melting point/freezing point	105 °C
Boiling point or initial boiling point and boiling range	50-70 °C
Flammability	Flammable Class I.
Lower and upper explosion limit	
bottom	2.1 %
upper	20.5 %
Flash point	<-18 °C
Auto-ignition temperature	>235 °C
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	0.09 bar at 20 °C
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Kinematic viscosity (20 °C): 0.553 mm²/s
VOC content: < 100%

SECTION 10: Stability and reactivity

10.1. Reactivity

Dangerous reactions are not known under normal use. The mixture is volatile and highly flammable.

10.2. Chemical stability

The mixture is volatile, it evaporates under normal conditions of temperature and pressure. The mixture is stable under normal environmental, storage and handling conditions.

10.3. Possibility of hazardous reactions

Vapors mixed with air may form an explosive mixture. Risk of the container bursting due to the development of vapors when the temperature rises. Danger of exothermic reaction in contact with acids and oxidizing agents. Solvent vapors are heavier than air, they accumulate especially near the floor, where they can form an explosive mixture when mixed with air.

SAFETY DATA SHEET

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

10.4. Conditions to avoid

Heating, contact with open flames, possible sources of ignition and hot surfaces, sparks, direct sunlight. Avoid the formation of a concentration within explosive limits.

10.5. Incompatible materials

Flammable materials, strong oxidizing agents, strong acids and bases.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Incomplete combustion or thermal decomposition produce toxic combustion products: COx, smoke, thick smoke, etc.

SECTION 11: Toxicological information

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

The mixture meets the criteria for classification according to EC Regulation No. 1272/2008. The mixture is classified as dangerous in the sense of EC Regulation No. 1272/2008, as amended.

Acute toxicity

The mixture is not classified as acutely toxic by any way of exposure.

1,3-dioxolane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	>3000 mg/kg		Rat	
Dermal	LD ₅₀	>3000 mg/kg		Rabbit	
Inhalation	LC ₅₀	70 mg/m ³	4 hours	Rat	

dimethoxymethane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	6423 mg/kg		Rat	
Dermal	LD ₅₀	>5000 mg/kg		Rabbit	
Inhalation	LC ₅₀	15000 mg/m ³	4 hours	Rat	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

The mixture is classified as eye irritant, category 2. Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

It does not contain substances causing disruption of the endocrine system. The mixture irritates the eyes (redness, burning in the eyes, lacrimation, conjunctivitis). Long-term inhalation exposure may lead to headaches or nausea. Prolonged or repeated exposure may cause skin dryness. Ingestion may cause abdominal pain, indigestion and nausea. Vomiting and diarrhea may occur.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

Acute toxicity

1,3-dioxolane				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	>60.9 mg/l	96 hours	Fish (Lepomis macrochirus)	
EC ₅₀	>772 mg/l	48 hours	Invertebrates (Daphnia magna)	

dimethoxymethane				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	>1000 mg/l	96 hours	Fish	
EC ₅₀	>1200 mg/l	48 hours	Invertebrates (Daphnia magna)	

More information

The ecotoxic effects of the mixture were not assessed. Do not allow liquid to enter drains or surface water.

12.2. Persistence and degradability

The organic substances contained are biodegradable.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

The mixture is mobile, there is a risk of contamination of environmental components.

12.5. Results of PBT and vPvB assessment

The mixture does not contain substances from the PBT and vPvB groups according to Annex XIII of the REACH Regulation, as amended.

12.6. Endocrine disrupting properties

Substances with these properties in accordance with the criteria set out in Commission Regulation (EU) 2017/2100 or (EU) 2018/605 are not included.

12.7. Other adverse effects

Do not allow liquid to enter drains or surface water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Suitable disposal methods for the mixture Dispose of as hazardous waste. Hand over to an authorized person or to a hazardous waste collection yard for disposal. Dispose of mixture and packaging residues in accordance with local waste management regulations.

SAFETY DATA SHEET

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BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

Waste management legislation

Act No. 477/2001 Coll., On Packaging, as amended. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.

Waste type code

07 03 04* other organic solvents, washing liquids and mother liquors

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1166

14.2. UN proper shipping name

DIOXOLANE

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II

14.5. Environmental hazards

No.

14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

33

UN number

1166

Classification code

F1

Safety signs

3



Tunnel restriction code

(D/E)

Air transport - ICAO/IATA

Packaging instructions passenger

353

Cargo packaging instructions

364

Marine transport - IMDG

EmS (emergency plan)

F-E, S-D

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

SECTION 15: Regulatory information

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

Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended. Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

methanol

Restriction	Conditions of restriction
69	Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or defrosting fluids, in a concentration equal to or greater than 0,6 % by weight.

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
H371	May cause damage to organs.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.

Other important information about human health protection

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the supplier can not control the specific conditions of use of the mixture, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization

SAFETY DATA SHEET

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BARVOJED

Creation date	22nd October 2003	Version	18
Revision date	21st December 2022		

IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended. Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

Manufacturer data and toxicological databases.

The changes (which information has been added, deleted or modified)

Adaptation of BL updated Annex II of the REACH Regulation as amended by Commission Regulation (EU) 2020/878.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.