

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) .

NOVABIO

Creation date	31st January 2007	Version	7
Revision date	09th June 2022		

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

1.1. Product identifier NOVABIO
Substance / mixture mixture

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

Mixture for biotechnological cleaning and degreasing, color removal

The use descriptors

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 not classified as dangerous according to Regulation (EC) No 1272/2008.

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

Most serious adverse physico-chemical effects

The mixture was not found to be physico-chemically hazardous.

Most serious adverse effects on human health and the environment

The mixture does not contain components classified as hazardous to health. The sprayed mixture may slightly irritate the respiratory tract. Prolonged or repeated contact with the skin may cause drying or cracking of the skin. Avoid contact with eyes. Avoid ingestion. Ensure against confusion with drinks. The mixture is not classified as dangerous for the environment. Avoid release to sewers and ground or surface waters. Follow the instructions for use to avoid risks to people and the environment. The full wording of the classification and H phrases is given in Sect. 16 of this safety data sheet.

2.2. Label elements

none
none

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.

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NOVABIO

Creation date 31st January 2007
Revision date 09th June 2022 Version 7

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
CAS: 34590-94-8 EC: 252-104-2	(2-methoxymethylethoxy)propanol	2,5-10	not classified as dangerous	1

Notes

1 A substance for which exposure limits are set.

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

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. In case of spontaneous vomiting, prevent inhalation of vomitus.

If inhaled

In case of inhalation, leave the contaminated area, breathe fresh air. In case of health problems, seek medical help.

If on skin

Wipe off the mixture, wash with lukewarm water and soap, treat with a regenerating cream. If clothing becomes contaminated, remove clothing. If skin irritation occurs, seek medical attention.

If in eyes

If the victim wears contact lenses, remove them. Flush eyes wide open with plenty of clean, lukewarm water, especially the area under the lids. Seek medical treatment.

If swallowed

Do not induce vomiting. Rinse your mouth with water, drink a glass of water. Seek medical attention and present this safety data sheet.

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

If inhaled

not available

If on skin

Long-term or repeated contact with the skin can exceptionally dry the skin and even cause dermatitis.

If in eyes

Adverse health effects are not expected. In the case of sensitive individuals, direct contact with the eyes may cause slight irritation (watering, burning, itching).

If swallowed

Ingestion may cause abdominal pain and nausea.

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

With normal use of the mixture, immediate medical attention is not necessary.

NOVABIO

Creation date	31st January 2007	Version	7
Revision date	09th June 2022		

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The mixture is not flammable, match the extinguishing agents to the surrounding fire (foam, water fog powder, CO2).

Unsuitable extinguishing media

Full stream of water.

5.2. Special hazards arising from the substance or mixture

The mixture is not dangerous when burned. Carbon and sulfur oxides can be released by thermal decomposition at high temperatures. Do not inhale thermal decomposition products.

5.3. Advice for firefighters

Adapt the protective equipment to the nature of the fire (if necessary, in non-ventilated areas, use an insulating breathing apparatus, an emergency suit).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent the entry of unauthorized persons, close and isolate the escape area. Provide adequate ventilation, do not inhale the sprayed mixture or vapors. Avoid contact with skin and eyes - use personal protective equipment. Danger of slipping on spilled mixtures.

6.2. Environmental precautions

Observe the usual environmental protection measures. Avoid release to soil, surface and ground water. In the event of a large leak, notify the relevant state authorities and the stream or sewer manager.

6.3. Methods and material for containment and cleaning up

Prevent the liquid from leaking, cover with a sorbent (sawdust, sand, diatomaceous earth, soil, etc.), store the used sorbent in a closable waste container and dispose of it according to sec. 13. In the event of a large leak, pump out the mixture. Wash the contaminated area with water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Follow the recommendations given in the instructions for use. Ensure sufficient ventilation of the work area. Protect eyes and skin, do not inhale the sprayed mixture, use personal protective equipment according to sec. 8. Protect from elevated temperatures and open flames. Ensure against confusion with drinks, prevent ingestion.

Pay attention to the applicable safety and health regulations. Follow 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.

7.2. Conditions for safe storage, including any incompatibilities

Store in original packaging in cool, dry and well-ventilated places. Store away from acids and oxidizing agents. Store away from food, drink and feed. The mixture is hygroscopic - avoid contact with moisture. Store out of reach of children. Follow the directions on the label.

Content	Packaging type	Material of package
10 l	jerry can	PE
25 l	jerry can	PE
40 l	jerry can	PE

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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) .

NOVABIO

Creation date	31st January 2007	Version	7
Revision date	09th June 2022		

Czech Republic

Government Regulation 195/2021 Coll.

Substance name (component)	Type	Value	Conversion for ppm	Note
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	PEL	270 mg/m ³	0,162	skin penetration is significantly involved during exposure
	NPK-P	550 mg/m ³	0,162	

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL 8 hours	308 mg/m ³	Skin
	OEL 8 hours	50 ppm	

DNEL

(2-methoxymethylethoxy)propanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers		310 mg/m ³	Chronic effects systemic		
Workers	Dermal	65 mg/kg/24h	Chronic effects systemic		

8.2. Exposure controls

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

Eye/face protection

Safety glasses if there is a risk of eye contact.

Skin protection

Work clothes made of natural fibers. Remove contaminated clothing and wash before re-use. Protective gloves (material, e.g. nitrile rubber, latex, etc.) - when choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Test at a specific workplace before first use. Replace damaged gloves.

Respiratory protection

It is not necessary if the recommended method of use and sufficient ventilation is observed.

Thermal hazard

Undetermined. Avoid heating the mixture and exposure to elevated temperatures.

Environmental exposure controls

Observe the usual environmental protection measures.

More information

Ensure compliance with governmental regulation 361/2007 Coll., Laying down the conditions for the protection of health at work, as amended, and to fulfill the obligations contained therein.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	Light yellow.

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) .

NOVABIO

Creation date	31st January 2007	Version	7
Revision date	09th June 2022		

Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	189 °C
Flammability	Flammable III. hazard class
Lower and upper explosion limit	data not available
Flash point	95 °C
Auto-ignition temperature	data not available
Decomposition temperature	>150 °C
pH	data not available
Kinematic viscosity	3 mm ² /s at 40 °C
Solubility in water	Partially miscible
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	3.6 hPa 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

Density and/or relative density (at 20 °C): 970 kg/m³
 VOC content: < 10%
 Explosive properties: The product does not pose a risk of explosion.

SECTION 10: Stability and reactivity

10.1. Reactivity

In normal conditions, the mixture does not show dangerous reactions.

10.2. Chemical stability

The mixture is stable under normal environmental, storage and handling conditions.

10.3. Possibility of hazardous reactions

The mixture does not show dangerous reactions if the instructions for use are followed. Decomposition may occur when heated above 150 °C. May react with strong acids and oxidizing agents to form an exothermic reaction.

10.4. Conditions to avoid

High temperatures, prolonged exposure to sunlight, open flames, sparks.

10.5. Incompatible materials

Reactive oxidants, strong acids and bases

10.6. Hazardous decomposition products

The mixture does not decompose under normal conditions. Carbon and sulfur oxides can be formed by thermal decomposition at higher temperatures.

SECTION 11: Toxicological information

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

The mixture is not 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.

(2-methoxymethylethoxy)propanol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	5230 mg/kg		Rat	
Dermal	LD ₅₀	13-14 g/kg		Rabbit	

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) .

NOVABIO

Creation date	31st January 2007	Version	7
Revision date	09th June 2022		

Skin corrosion/irritation

Based on the available data, the classification criteria are not met. Prolonged or repeated skin contact may cause skin dryness in sensitive individuals.

Serious eye damage/irritation

Based on the available data, the classification criteria are not met. Direct eye contact may cause slight 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.

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. In the case of sensitive individuals, direct contact with the eyes may cause slight irritation (watering, burning, itching). Long-term or repeated contact with the skin can exceptionally dry the skin and even cause dermatitis. Ingestion may cause abdominal pain and nausea. In asthmatics and people with breathing problems, it can irritate the respiratory system when inhaled.

SECTION 12: Ecological information

12.1. Toxicity

The ecotoxic effects of the mixture were not assessed. Observe the usual environmental precautions.

Acute toxicity

(2-methoxymethylethoxy)propanol				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	≥150 mg/l	72 hours	Fish (Notropis atherinoides)	
LC ₅₀	>1000 mg/l	72 hours	Fish (Poecilia reticulata)	
LC ₅₀	>10 g/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀	1919 mg/l	48 hours	Invertebrates (Daphnia magna)	

12.2. Persistence and degradability

The mixture is biodegradable (OECD 301B).

12.3. Bioaccumulative potential

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NOVABIO

Creation date	31st January 2007	Version	7
Revision date	09th June 2022		

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

Undetermined

12.5. Results of PBT and vPvB assessment

The mixture does not contain substances from the PBT and vPvB categories

12.6. Endocrine disrupting properties

These substances are not included.

12.7. Other adverse effects

Avoid release of concentrated mixture into sewers, soil, and ground or surface water. Observe the usual environmental protection measures.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

A smaller amount of the mixture can be flushed down the drain with a large amount of water. Dispose of mixture and packaging residues in accordance with local waste regulations. Hand over to an authorized person for disposal, e.g. in a hazardous waste incinerator.

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

08 01 18 wastes from paint or varnish removal other than those mentioned in 08 01 17

20 01 30 detergents other than those mentioned in 20 01 29

Packaging waste type code

15 01 02 plastic packaging

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not available

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Always carry closed containers in upright position. Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

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NOVABIO

Creation date	31st January 2007	Version	7
Revision date	09th June 2022		

SECTION 15: Regulatory information

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

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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. Regulation (EC) No. 1907/2006 of the European 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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. 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.

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

SECTION 16: Other information

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
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 K _{ow}	Octanol-water partition coefficient
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits



SAFETY DATA SHEET

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NOVABIO

Creation date	31st January 2007	Version	7
Revision date	09th June 2022		

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

Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended.

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)

Modification of the BL format according to the updated Annex II of the REACH Regulation.

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.