

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) .

Silikonový olej Plus

Creation date	29th November 2023	Version	1.0
Revision date			

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

1.1. Product identifier Silikonový olej Plus
Substance / mixture mixture

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

Lubricant

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.

Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

Imperfect thermal decomposition at elevated temperatures may release dangerous gases.

Most serious adverse effects on human health and the environment

The mixture does not contain components classified as hazardous to health. Avoid contact with eyes and skin. Avoid ingestion. Ensure against confusion with drinks. Use suitable work protective equipment. The mixture is classified as harmful to the environment. 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

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container to in accordance with local regulations.

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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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: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6	2-(2-butoxyethoxy)ethanol	1-5	Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 10 %	1, 2
CAS: 95-38-5 EC: 202-414-9	2-(2-heptadec-8-enyl-2-imidazolin-1-yl) ethanol	<1	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 Specific concentration limit: Skin Corr. 1C, H314: C ≥ 5 % Eye Dam. 1, H318: C ≥ 3 % STOT RE 2, H373: C ≥ 10 %	

Notes

- 1 A substance for which exposure limits are set.
 - 2 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.

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

If inhalation occurs, rinse mouth with water, breathe fresh air. If respiratory tract irritation occurs and persists, seek medical attention.

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 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 lukewarm water. The decision whether to induce vomiting should be left to the doctor's decision, after a longer period of time do not attempt to induce vomiting. If nausea or health problems occur, seek medical attention and present this safety data sheet.

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

If inhaled

Inhalation of vapors, mist or sprayed mixture may irritate coughing.

If on skin

not available

If in eyes

When rubbed directly into the eyes, it can slightly irritate the eyes (redness, tearing, burning).

If swallowed

Ingestion may cause nausea or abdominal pain.

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

In the normal use of the mixture, medical assistance is not required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The mixture is not flammable, extinguishing agents must be adapted to the surrounding materials (water mist, dry powder, foam, CO₂).

Unsuitable extinguishing media

Not defined.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition at high temperatures or in the event of a fire can produce dangerous decomposition products (CO_x, hydrocarbons, aldehydes, soot). Do not inhale thermal decomposition products.

5.3. Advice for firefighters

Adapt protective equipment to the surrounding fire and its nature (self-contained breathing apparatus, protective clothing). Cool the containers with the mixture with sprayed water. Both combustion residues and water after the intervention should be disposed of as hazardous waste or according to applicable local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

The mixture is not dangerous, there is no need for special measures to protect people. Avoid contact with eyes and skin - use personal protective equipment. Ensure sufficient ventilation of the work area. Avoid inhaling the sprayed mixture.

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

In the event of a small leak, wipe the mixture with a rag or cover it with a suitable sorbent (vapex, sand, diatomaceous earth, sawdust), seal the contaminated mixture in waste containers, label and dispose of it according to sec. 13. 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. Avoid contact with skin and eyes - use personal protective equipment according to sec. 8. Ensure sufficient ventilation of the working area, prevent inhalation of the sprayed mixture. Avoid fogging. Ensure against confusion with drinks, prevent ingestion. Pay attention to 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.

7.2. Conditions for safe storage, including any incompatibilities

Store tightly closed with the cap facing upwards in the original packaging in a cool, well-ventilated place. Protect containers from damage. Store out of reach of children. Store away from food, drink and feed.

Storage temperature max. 40 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Czech Republic

Government Regulation 330/2023 Coll.

Substance name (component)	Type	Value	Note
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	PEL	70 mg/m ³	irritating to mucous membranes (eyes, respiratory system) and skin
	NPK-P	100 mg/m ³	

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value	Note
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	OEL 8 hours	67,5 mg/m ³	
	OEL 8 hours	10 ppm	
	OEL 15 minutes	101,2 mg/m ³	
	OEL 15 minutes	15 ppm	

DNEL

2-(2-butoxyethoxy)ethanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	67.5 mg/m ³	Chronic effects local		
Workers	Inhalation	101.2 mg/m ³	Acute effects local		
Workers	Dermal	20 mg/kg/24h	Chronic effects systemic		

PNEC

2-(2-butoxyethoxy)ethanol			
Route of exposure	Value	Value determination	Source
Drinking water	1.1 mg/l		
Marine water	0.11 mg/l		
Freshwater sediment	4.4 mg/kg		
Sea sediments	0.44 mg/kg		
Soil (agricultural)	0.32 mg/kg		
Microorganisms in sewage treatment	200 mg/l		
Water (intermittent release)	3.9 mg/l		

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8.2. Exposure controls

Ensure sufficient ventilation, or extraction of the working space. Avoid contact with eyes and skin. 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

Tight safety glasses

Skin protection

Work protective clothing. Remove contaminated clothing and wash before re-use. Protective gloves (eg: nitrile material 0.1 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. Test at a specific workplace before first use. Replace damaged gloves.

Respiratory protection

If the recommended method of use is followed, it is not necessary. If there is a risk of inhaling the sprayed mixture, use a respirator, in case of long-term exposure or exceeding limit limits or an accident, use a mask with a filter against organic vapors and aerosols.

Thermal hazard

Not Specified. Avoid heating the mixture and exposure to elevated temperatures.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	The mixture is not flammable
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	0.01 kPa 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 (at 40 °C): 80 cSt
Density and/or relative density (at 20 °C): 880 kg/m³
VOC content: 0.0%

Explosive properties: The mixture does not show explosive properties.
Oxidizing properties: The mixture is not classified as oxidizing.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

They are not known in normal use. The mixture may react with acids to form an exothermic reaction.

10.4. Conditions to avoid

To temperatures exceeding 40 °C, frost, direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents, strong acids

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Thermal decomposition at high temperatures can produce dangerous decomposition products (COx, hydrocarbons, aldehydes, soot, 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

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

Based on available data the classification criteria are not met.

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. When rubbed directly into the eyes, it can slightly irritate the eyes (redness, tearing, burning). Inhalation of vapors, mist or sprayed mixture may irritate coughing. Ingestion may cause nausea or abdominal pain.

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SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

The components of the mixture are gradually broken down into inactive components.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

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

not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of mixture and packaging residues in accordance with local waste regulations. Do not flush down the drain or with municipal waste. Hand over to an authorized person for disposal or special treatment. Dispose of according to local regulations. It is necessary to subject the packaging to special treatment.

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

16 03 05* organic wastes containing hazardous substances

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

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

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

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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

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of restriction
55	<p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.</p> <p>2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:</p> <p>"Do not use in paint spraying equipment".</p>

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P273	Avoid release to the environment.
P501	Dispose of contents/container to in accordance with local regulations.

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.

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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
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
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
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
STOT RE	Specific target organ toxicity - repeated 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.

Statement



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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.

