

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) .

ALUMON složka A - tmel (component A - sealant)

Creation date	09th May 2013	Version	4
Revision date	21st December 2022		

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

1.1. Product identifier ALUMON složka A - tmel (component A - sealant)
Substance / mixture mixture

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

Plastic aluminum - sealant

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.

Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Irrit. 2, H319
Aquatic Chronic 2, H411

Most serious adverse physico-chemical effects

Imperfect thermal decomposition at high temperatures may release dangerous gases. Avoid contact with open flames and heat sources. Avoid inhalation of decomposition products. The mixture reacts with acids and oxidizing agents. Heat may be generated during polymerization.

Most serious adverse effects on human health and the environment

The mixture irritates the eyes (redness, burning in the eyes, tearing, conjunctivitis) and the skin (redness, burning, itching). The mixture may, depending on individual sensitivity, cause an allergic skin reaction (contact dermatitis – redness, swelling, pimples, blisters). Frequent or long-term contact with the skin causes drying or cracking of the skin or even dermatitis. Ingestion may cause abdominal pain and nausea. The mixture is classified as toxic for the environment. Avoid release to sewers, soil, ground and surface water. 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.

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2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

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: 603-074-00-8 CAS: 25068-38-6 EC: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	20-40	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315: C \geq 5 % Eye Irrit. 2, H319: C \geq 5 % Skin Sens. 1, H317: C \geq 1 % Aquatic Chronic 2, H411: C \geq 25 %	

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. Provide warmth and peace. 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.

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If inhaled

If inhalation occurs, stop exposure, rinse mouth with water, breathe fresh air. Seek medical attention if respiratory tract irritation or breathing difficulties occur. If necessary (respiratory arrest or irregular breathing), perform artificial respiration.

If on skin

Wipe off the mixture, wash thoroughly with water and soap and treat with a regenerating cream. If clothing becomes contaminated, remove clothing. Seek medical attention if symptoms of irritation or allergic reaction occur.

If in eyes

If the victim wears contact lenses, remove them. Forcefully open eyes should be flushed from the inner corner of the eye towards the outer with a large amount of clean lukewarm water, especially the space under the eyelids. Rinse for at least 15 min., seek medical treatment.

If swallowed

Do not induce vomiting, rinse the mouth with water, drink a glass of lukewarm water (only if the victim is conscious and not convulsing). Seek medical attention immediately and present this safety data sheet.

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

If inhaled

not available

If on skin

The mixture irritates the skin (redness, burning, itching). The mixture may, depending on individual sensitivity, cause an allergic skin reaction (contact dermatitis – redness, swelling, pimples, blisters). Frequent or long-term contact with the skin causes drying or cracking of the skin or even dermatitis.

If in eyes

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

If swallowed

Ingestion may cause abdominal pain and nausea.

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.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can produce dangerous fumes (CO_x, NO_x, aldehydes and undefinable mixtures of organic compounds, etc.), in case of fire, thick black smoke is produced. Do not inhale decomposition products.

5.3. Advice for firefighters

Isolation breathing apparatus and non-flammable intervention suit. Cool containers near fire with water spray or cover with foam. Combustion residues and water after intervention should be disposed of as hazardous waste, prevent leakage into sewers or waterways. Prevent the entry of unauthorized and unprotected persons, secure and isolate the escape area. Ensure sufficient ventilation of the work area, do not inhale fumes. Avoid contact with skin and eyes, avoid inhalation - use personal protective equipment. Ensure against confusion with food. Avoid contact with heat sources, protect against overheating.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent the entry of unauthorized and unprotected persons, secure and isolate the escape area. Ensure sufficient ventilation of the work area, do not inhale fumes. Avoid contact with skin and eyes, avoid inhalation - use personal protective equipment. Ensure against confusion with food. Avoid contact with heat sources, protect against overheating.

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6.2. Environmental precautions

Secure the area of the leak, catch the leaking mixture. Avoid release to sewers, soil, surface and ground water. In the event of a large liquid leak, monitor the NPK concentration or TLV and inform the appropriate state authorities and stream or sewer manager.

6.3. Methods and material for containment and cleaning up

Prevent leakage. In case of leakage, cover with a suitable sorbent (universal sorbent, sand, diatomaceous earth, soil, vermiculite, etc.), collect mechanically, store in a closable waste container and dispose of as hazardous waste. Wash the contaminated area.

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 of the work area, prevent inhalation of vapors of the mixture. Protect eyes and skin, use personal protective equipment according to sec. 8. Avoid contact with possible sources of ignition. Avoid confusion with food. The work area should be equipped with a source of drinking water. 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 in the original packaging at a temperature of 5 - 25 °C in a cool, dry and well-ventilated place. Store away from heat sources, protect from direct sunlight, do not smoke. Store away from food, drink and feed. The warehouse should be equipped with a source of drinking water. Store away from strong acids, bases and oxidizing agents.

Content	Packaging type	Material of package
24 ml	tube	PE

Storage temperature min 5 °C, max 25 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture does not contain any constituents of national exposure limits specified in Annex 2, Government Decree 361/2007 Coll., As amended or European Union for Work Environment.

DNEL

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	8.33 mg/kg	Acute effects systemic		
Workers	Inhalation	12.25 mg/m ³	Acute effects systemic		
Workers	Dermal	8.33 mg/kg	Chronic effects systemic		
Workers	Inhalation	12.25 mg/m ³	Chronic effects systemic		
Consumers	Dermal	3.571 mg/kg bw	Acute effects systemic		
Consumers	Oral	0.75 mg/kg	Acute effects systemic		
Consumers	Dermal	3.571 mg/kg bw	Chronic effects systemic		
Consumers	Oral	0.75 mg/kg	Chronic effects systemic		

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PNEC

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	10 mg/l		
Water (intermittent release)	0.006 mg/l		
Freshwater sediment	0.996 mg/kg		
Marine water	0.0006 mg/l		
Sea sediments	0.0996 mg/kg		
Soil (agricultural)	0.196 mg/kg		
Oral	11 mg/kg		

8.2. Exposure controls

Ensure sufficient ventilation, or extraction of the working space. In case of risk of inhalation exposure, use appropriate respiratory protection. Avoid contact with skin and eyes, do not inhale vapors. Ensure against confusion with food. The work area should be equipped with sources of drinking water. 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

Closed safety glasses.

Skin protection

Protective work clothing. Remove contaminated clothing and wash before re-use. Protective gloves (material e.g. nitrile rubber, butyl rubber). Observe the recommended penetration time of the glove material. When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Replace damaged gloves.

Respiratory protection

Not necessary. In case of insufficient ventilation, use a respirator, in case of insufficient ventilation of the working area, use a mask with a filter against organic vapors and aerosols, type A. In case of accident or long-term exposure, use an isolation breathing apparatus.

Thermal hazard

not available

Environmental exposure controls

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

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	solid
Colour	Black, silver to gray
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>280 °C
Flammability	Flammable IV. hazard class
Lower and upper explosion limit	data not available
Flash point	266 °C
Auto-ignition temperature	>460 °C
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	6.9 mg/l

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Partition coefficient n-octanol/water (log value)	3.242
Vapour pressure	4.6.10 ⁻⁸ Pa at 20 °C
Density and/or relative density	
Density	1.16 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Viscosity (20 °C): 12.5 – 15.5 Pa.s
 The mixture is soluble in acetone.
 VOC content: Based on the available data, it does not contain volatile organic substances.

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 conditions, storage and handling.

10.3. Possibility of hazardous reactions

In contact with strong acids, bases or oxidizing agents, an exothermic reaction may occur. It polymerizes with the development of heat. Reacts with amines.

10.4. Conditions to avoid

Frost, temperatures above 30 °C, direct sunlight, heating, static electricity.

10.5. Incompatible materials

Oxidizing agents, strong acids and bases, amines.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Incomplete combustion or thermal decomposition produce toxic combustion products (CO, CO₂, NO_x, thick black smoke).

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.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	15000 mg/kg		Rat	
Dermal	LD ₅₀	23000 mg/kg		Rabbit	

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	13600 mg/kg		Rat	
Dermal	LD ₅₀	23000 mg/kg		Rabbit	

Skin corrosion/irritation

The mixture is classified as skin irritant, category 2. Irritating to skin.

Serious eye damage/irritation

The mixture is classified as a skin irritant, category 2. Irritating to the skin. The mixture is classified as an eye irritant, category 2. Causes serious eye irritation.

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Respiratory or skin sensitisation

The mixture is classified as a skin sensitizer, category 1. It may cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

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

Data according to the supplier's SDS:

NOAEL(oral): 15 mg/kg body weight/day - Target organs: digestive tract: cecum
 NOAEL(dermal): 1 mg/kg body weight/day - Target organs: digestive tract: liver

Reproductive toxicity

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

Data according to the supplier's SDS:

Fertility: NOAEL(oral): 750 mg/kg body weight/day
 Developmental toxicity: NOAEL(oral): 180 mg/kg bw/day
 Developmental toxicity: NOAEL(dermal): 300 mg/kg bw/day

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. The mixture irritates the eyes (redness, burning in the eyes, tearing, conjunctivitis) and the skin (redness, burning, itching). The mixture may, depending on individual sensitivity, cause an allergic skin reaction (contact dermatitis - redness, swelling, pimples, blisters, eczematous manifestations). Frequent or long-term contact with the skin causes drying or cracking of the skin or even dermatitis. Ingestion may cause abdominal pain and nausea.

SECTION 12: Ecological information

12.1. Toxicity

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

Acute toxicity

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	2 mg/l	96 hours	Fish (Leuciscus idus)	
EC ₅₀	1.8 mg/l	48 hours	Invertebrates (Daphnia magna)	
IC ₅₀	11 mg/l	72 hours	Algae	

12.2. Persistence and degradability

The mixture is difficult to biodegrade.

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12.3. Bioaccumulative potential

Bioaccumulation factor: 31 l/kg bw

12.4. Mobility in soil

Koc = 445 (at 20 °C)

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

Water hazard class: WGK 2 (self-classification) The mixture is classified as toxic for environmental components. It must not get into the soil, underground or surface water or sewage system. Observe the usual environmental protection measures.

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.

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 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

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 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

14.4. Packing group

III

14.5. Environmental hazards

Yes.

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

SAFETY DATA SHEET

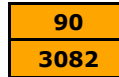
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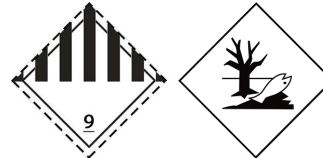
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Additional information

Hazard identification No.
UN number
Classification code
Safety signs



M6
9+ hazardous for the environment



Tunnel restriction code (-)

Air transport - ICAO/IATA

Packaging instructions passenger 964
Cargo packaging instructions 964

Marine transport - IMDG

EmS (emergency plan) F-A, S-F

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.

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

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

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Other important information about human health protection

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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
IC ₅₀	Concentration causing 50% blockade
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
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
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

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.



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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.



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ALUMON složka B - tvrdidlo (component B - hardener)

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

1.1. Product identifier ALUMON složka B - tvrdidlo (component B - hardener)
Substance / mixture mixture

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

Plastic aluminum - hardener

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.

Acute Tox. 4, H302
Skin Corr. 1B, H314
Skin Sens. 1, H317

Most serious adverse physico-chemical effects

Imperfect thermal decomposition at high temperatures may release dangerous gases. Avoid contact with open flames and heat sources. Avoid inhalation of decomposition products. The mixture reacts with acids and oxidizing agents. Heat may be generated during polymerization.

Most serious adverse effects on human health and the environment

The mixture is corrosive, has corrosive effects on the eyes (burning, itching, conjunctivitis up to corneal damage or vision damage) and skin (redness, burning, up to skin damage or chemical burns). The mixture shows sensitization when in contact with the skin, it can cause an allergic reaction (rash, dermatitis, eczematous manifestations). Allergy and asthma sufferers should avoid contact with the mixture. Inhalation of vapors may cause irritation of mucous membranes and respiratory tract with coughing. Avoid repeated or prolonged exposure. When the mixture is ingested, nausea, abdominal pain, and digestive problems may occur. Ensure against confusion with food.

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) .

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

Precautionary statements

P260 Do not breathe vapours.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/protective clothing/eye protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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
CAS: 55552-95-9 EC: 500-129-7	Formaldehyde, oligomeric reaction products with diethylenetriamine and phenol	15-30	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Specific concentration limit: Skin Corr. 1B, H314: C ≥ 5 % Skin Irrit. 2, H315: 1 % ≤ C < 5 % Skin Sens. 1, H317: C ≥ 1 %	

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. Provide warmth and peace. 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.

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If inhaled

If inhalation occurs, stop exposure, rinse mouth with water, breathe fresh air. Seek medical attention if respiratory tract irritation or breathing difficulties occur. If necessary (respiratory arrest or irregular breathing), perform artificial respiration.

If on skin

Wipe off the mixture, wash thoroughly with water and soap and treat with a regenerating cream. If clothing becomes contaminated, remove clothing. Seek medical attention if symptoms of irritation or allergic reaction occur.

If in eyes

If the victim wears contact lenses, remove them. Forcefully open eyes should be flushed from the inner corner of the eye towards the outer with a large amount of clean lukewarm water, especially the space under the eyelids. Rinse for at least 15 min., seek medical treatment.

If swallowed

Do not induce vomiting, rinse the mouth with water, drink a glass of lukewarm water (only if the victim is conscious and not convulsing). Seek medical attention immediately and present this safety data sheet.

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

If inhaled

Inhalation of vapors may cause irritation of mucous membranes and respiratory tract with coughing.

If on skin

The mixture is corrosive to the skin (redness, burning, even skin damage or chemical burns). The mixture shows sensitization when in contact with the skin, it can cause an allergic reaction (rash, dermatitis, eczematous manifestations). Allergy and asthma sufferers should avoid contact with the mixture.

If in eyes

The mixture is corrosive, has strong irritating to caustic effects on the eyes (burning, itching, conjunctivitis to corneal damage or vision damage)

If swallowed

Ingestion may cause abdominal pain and nausea.

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

The mixture is not classified as flammable, match the extinguishing agents to the surrounding fire (multi-purpose powders, CO₂, foam, water mist or sprayed water jet).

Unsuitable extinguishing media

Full stream of water.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can produce dangerous fumes (CO_x, NO_x, aldehydes and undefinable mixtures of organic compounds, etc.), in case of fire, thick black smoke is produced. Do not inhale decomposition products.

5.3. Advice for firefighters

Isolation breathing apparatus and non-flammable intervention suit. Cool containers near fire with water spray or cover with foam. Combustion residues and water after intervention should be disposed of as hazardous waste, prevent leakage into sewers or waterways. Prevent the entry of unauthorized and unprotected persons, secure and isolate the escape area. Ensure sufficient ventilation of the work area, do not inhale fumes. Avoid contact with skin and eyes, avoid inhalation - use personal protective equipment. Ensure against confusion with food. Avoid contact with heat sources, protect against overheating.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent the entry of unauthorized and unprotected persons, secure and isolate the escape area. Ensure sufficient ventilation of the work area, do not inhale fumes. Avoid contact with skin and eyes, avoid inhalation - use personal protective equipment. Ensure against confusion with food. Avoid contact with heat sources, protect against overheating.

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) .

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6.2. Environmental precautions

Secure the area of the leak, catch the leaking mixture. Avoid release to sewers, soil, surface and ground water. In the event of a large liquid leak, monitor the NPK concentration or TLV and inform the appropriate state authorities and stream or sewer manager.

6.3. Methods and material for containment and cleaning up

Prevent leakage. In case of leakage, cover with a suitable sorbent (universal sorbent, sand, diatomaceous earth, soil, vermiculite, etc.), collect mechanically, store in a closable waste container and dispose of as hazardous waste. Wash the contaminated area.

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 of the work area, prevent inhalation of vapors of the mixture. Protect eyes and skin, use personal protective equipment according to sec. 8. Avoid contact with possible sources of ignition. Avoid confusion with food. The work area should be equipped with a source of drinking water. 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 in the original packaging at a temperature of 10 - 25 °C in a cool, dry and well-ventilated place. Store away from heat sources, protect from direct sunlight, do not smoke. Store away from food, drink and feed. The warehouse should be equipped with a source of drinking water. Store away from strong acids, bases and oxidizing agents.

Content	Packaging type	Material of package
24 ml	tube	PE

Storage temperature min 10 °C, max 25 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture does not contain any constituents of national exposure limits specified in Annex 2, Government Decree 361/2007 Coll., As amended or European Union for Work Environment.

8.2. Exposure controls

Ensure sufficient ventilation, or extraction of the working space. In case of risk of inhalation exposure, use appropriate respiratory protection. Avoid contact with skin and eyes, do not inhale vapors. Ensure against confusion with food. The work area should be equipped with sources of drinking water. 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

Closed safety glasses.

Skin protection

Protective work clothing. Remove contaminated clothing and wash before re-use. Protective gloves (material e.g. nitrile rubber, butyl rubber). Observe the recommended penetration time of the glove material. When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Replace damaged gloves.

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Respiratory protection

If there is a risk of inhaling vapors or in case of insufficient ventilation of the work area, use a mask with a filter against organic vapors and aerosols, type A. In case of accident or long-term exposure, use a self-contained breathing apparatus.

Thermal hazard

not available

Environmental exposure controls

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

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	solid
Colour	yellowish brown
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>250 °C
Flammability	The product is non-flammable.
Lower and upper explosion limit	data not available
Flash point	>150 °C
Auto-ignition temperature	>460 °C
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	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

VOC content: Based on the available data, it does not contain volatile organic substances.

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 conditions, storage and handling.

10.3. Possibility of hazardous reactions

In contact with strong acids or oxidizing agents, a dangerous exothermic reaction may occur. Heat may be released during polymerization.

10.4. Conditions to avoid

Formation of over-limit vapor concentration, temperatures outside the range of 10 °C - 30 °C, static discharges.

10.5. Incompatible materials

Strong acids and bases, oxidizing agents, easily reactive metals.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Incomplete combustion or thermal decomposition produce toxic combustion products (CO, CO₂, NO_x, thick black smoke).

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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 classified as acutely toxic if swallowed, category 4.

Formaldehyde, oligomeric reaction products with diethylenetriamine and phenol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	200 mg/kg		Rat	

Skin corrosion/irritation

The mixture is classified as corrosive to the skin, category 1B. It causes severe irritation, burns, and may even damage the skin.

Serious eye damage/irritation

The mixture is classified as corrosive, category 1B. It causes severe irritation, burns, and may even damage the cornea.

Respiratory or skin sensitisation

The mixture is classified as a skin sensitizer, category 1. It may cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

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. The mixture is corrosive, has strong irritating to caustic effects on the eyes (burning, itching, conjunctivitis up to corneal damage or vision damage) and skin (redness, burning, up to skin damage or chemical burns). The mixture shows sensitization when in contact with the skin, it can cause an allergic reaction (rash, dermatitis, eczematous manifestations). Allergy and asthma sufferers should avoid contact with the mixture. Inhalation of vapors may cause irritation of mucous membranes and respiratory tract with coughing. Avoid repeated or prolonged exposure. Ingestion of the mixture may cause nausea, abdominal pain, indigestion, and in extreme cases, disruption of the digestive tract.

SECTION 12: Ecological information

12.1. Toxicity

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

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) .

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12.2. Persistence and degradability

The mixture is biodegradable.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

The mixture is not miscible with water, it is not very mobile in soil and water.

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

The mixture is not classified as dangerous for the environment. Avoid release to soil, ground or surface water or sewers. Observe the usual environmental protection measures.

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.

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 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

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 2922

14.2. UN proper shipping name

CORROSIVE LIQUID, TOXIC, N.O.S.

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

III

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

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) .

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Additional information

Hazard identification No.
 UN number
 Classification code
 Safety signs

86
2922

CT1
8+6.1



Tunnel restriction code (E)

Air transport - ICAO/IATA

Packaging instructions passenger 852
 Cargo packaging instructions 856

Marine transport - IMDG

EmS (emergency plan) F-A, S-B
 MFAG 760

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 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

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Guidelines for safe handling used in the safety data sheet

P260	Do not breathe vapours.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection.

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) .

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- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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
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
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
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
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization

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



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) .

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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.

