

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) .

## NOVABOND (part A - sealer)

Creation date	09th May 2013	Version	5
Revision date	23rd December 2022		

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

**1.1. Product identifier** NOVABOND (part A - sealer)  
Substance / mixture mixture

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

Two-component sealant - sealer

#### The use descriptors

PC 1 Adhesives, sealants

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 dryness or skin cracking to dermatitis. Ingestion may cause abdominal pain and nausea. The mixture is classified as toxic for the

environment. Prevent leakage into drains, soil, underground and surface water. Follow the instructions for use to avoid risks to humans 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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## NOVABOND (part A - sealer)

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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.
P337+P313	If eye irritation persists: 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: 603-073-00-2 CAS: 1675-54-3 EC: 216-823-5	bis-[4-(2,3-epoxipropoxy)phenyl]propane	10-15	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315: C ≥ 5 % Eye Irrit. 2, H319: C ≥ 5 % Skin Sens. 1, H317: C ≥ 1 %	
Index: 603-103-00-4 CAS: 68609-97-2 EC: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	1-4	Skin Irrit. 2, H315 Skin Sens. 1, H317 Specific concentration limit: Skin Irrit. 2, H315: C ≥ 10 % Skin Sens. 1, H317: C ≥ 1 %	
Index: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9	benzyl alcohol	1-4	Acute Tox. 4, H302+H332 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 10 %	1

## NOVABOND (part A - sealer)

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### 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

If you feel any health problems or if in doubt, seek medical advice and provide information from this Safety Data Sheet. In the case of life-threatening conditions, resuscitate. Keep the unconscious person in a stabilized position and do not give anything by mouth. Avoid cool. Do not induce vomiting. For spontaneous vomiting, avoid inhalation of vomit.

#### If inhaled

There is no risk of inhalation under normal use. If inhalation occurs, leave room, rinse mouth with water, inhale fresh air.

#### If on skin

Wipe the product thoroughly, rinse thoroughly with warm water, soap and treat with a regenerating cream. In case of garment contamination, remove the garment. If symptoms of irritation develop, seek medical help.

#### If in eyes

If it has affected contact lenses, remove them if possible. Open wide eyes rinse out of the inner corner of the eye toward the outside of a large amount of clean, lukewarm water, especially the area under the lids. Rinse for at least 15 minutes and seek medical attention.

#### If swallowed

Do not induce vomiting. Rinse mouth with water. Get 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

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, tearing, conjunctivitis).

#### If swallowed

Ingestion may cause nausea or abdominal pain.

### 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

Mixture is not flammable, fire extinguisher adapted to fire in the area.

#### Unsuitable extinguishing media

Full stream of water.

### 5.2. Special hazards arising from the substance or mixture

The mixture contains components which react violently with water. Thermal decomposition at high temperatures or in the event of fire may result in hazardous decomposition products (COx). Do not inhale thermal decomposition products.

### 5.3. Advice for firefighters

Protective equipment adapt the nature of the fire.

# SAFETY DATA SHEET

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### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures**  
Do not allow unauthorized persons to enter. Avoid contact with skin and eyes - use personal protective equipment.
- 6.2. Environmental precautions**  
Observe the usual environmental precautions. Avoid leakage into sewers, soil, surface and ground water. In case of leakage, inform the competent authorities of the state administration and the flow or sewerage manager.
- 6.3. Methods and material for containment and cleaning up**  
In the case of a small leak, mechanically remove the mixture, wipe the remainder with a cloth, contaminate the mixture and place the cloths in a sealing waste container and discard according to section 13. Always use personal protective equipment for disposal. Wash the contaminated area with water.
- 6.4. Reference to other sections**  
Recommended personal protective equipment according to section 8. Dispose of unused product according to section 13.

### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**  
Follow the recommendations in the operating instructions. Ensure contact with eyes and skin, use personal protective equipment according to part 8. Ensure adequate ventilation of the work area. Ensure food confusion, avoid ingestion. Protect from open fire and heat sources. Observe the applicable health and safety legislation. Observe the principles of hygiene with chemicals, do not eat, drink, smoke. Wash hands with warm soapy water before breaks, meals, and after work.
- 7.2. Conditions for safe storage, including any incompatibilities**  
Store in original packages, in dry and well-ventilated areas. Storage temperature 5 - 25 °C. Protect from fire and direct sunlight. Protect from contact with water and excessive moisture. Keep out of the reach of children. Store away from food, drink and animal feed. Follow the instructions on the label.  
Storage temperature min 5 °C, max 25 °C
- 7.3. Specific end use(s)**  
It is not.

### 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.

Czech Republic	Government Regulation 330/2023 Coll.	
Substance name (component)	Type	Value
benzyl alcohol (CAS: 100-51-6)	PEL	40 mg/m <sup>3</sup>
	PEL	9 ppm
	NPK-P	80 mg/m <sup>3</sup>
	NPK-P	18 ppm

#### DNEL

benzyl alcohol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	22 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Dermal	8 mg/kg/24h	Chronic effects systemic		
Workers	Inhalation	110 mg/m <sup>3</sup>	Acute effects systemic		

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bis-[4-(2,3-epoxipropoxy)phenyl]propane					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	4.93 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Dermal	0.75 mg/kg/24h	Chronic effects systemic		

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	3.6 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Dermal	1 mg/kg/24h	Chronic effects systemic		

### PNEC

benzyl alcohol			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	39 mg/l		
Freshwater environment	1 mg/l		
Marine water	0.1 mg/l		
Freshwater sediment	5.27 mg/kg		
Sea sediments	0.527 mg/kg		
Soil (agricultural)	0.456 mg/kg		

bis-[4-(2,3-epoxipropoxy)phenyl]propane			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	10 mg/l		
Freshwater environment	0.006 mg/l		
Marine water	0.0006 mg/l		
Freshwater sediment	0.341 mg/kg		
Marine water	0.034 mg/kg		
Soil (agricultural)	0.065 mg/kg		

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	0.106 mg/l		
Marine water	0.011 mg/l		
Freshwater sediment	307.16 mg/kg		
Sea sediments	30.72 mg/kg		
Soil (agricultural)	1.234 mg/kg		

## NOVABOND (part A - sealer)

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### 8.2. Exposure controls

Ensure adequate ventilation or extraction of the work area. Avoid contact with skin and eyes. Observe hygiene measures for handling chemicals. Do not eat, drink or smoke while working. Wash hands with lukewarm water and soap before breaks, food and work. Adapt personal protective equipment to the nature of the work.

#### Eye/face protection

Closed safety glasses.

#### Skin protection

Protective work clothing; Take off contaminated clothing and wash before reuse. Protective gloves (eg: Nitrile 0.1 mm, breakthrough time 480 min.) - when selecting, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Test on site for first time use. Replace damaged gloves.

#### Respiratory protection

It is not needed. In case of insufficient ventilation or accident, use a mask with an organic vapor and aerosol filter type A.

#### 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	greyish black
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	141 °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	<0.01 Pa at 20 °C
Density and/or relative density	
Density	1.55 g/cm <sup>3</sup> at 23 °C
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

Appearance	paste
Explosive properties	The product does not have explosive properties.
Soluble in acetone.	
VOC content: < 8%.	

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

In normal conditions, the mixture does not show dangerous reactions. The mixture contains a component classified as reacting violently with water.

### 10.2. Chemical stability

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

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### 10.3. Possibility of hazardous reactions

In contact with strong acids, bases or oxidizing agents, an exothermic reaction may occur.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Strong oxidizing agents, strong Lewis or mineral acids, strong mineral and organic bases.

### 10.6. Hazardous decomposition products

In normal conditions, the mixture is not decomposed. Thermal decomposition at high temperatures may produce hazardous decomposition products (COx).

## 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.

benzyl alcohol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	1230 mg/kg		Dog	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	4.178 mg/l	4 hours	Rat (Rattus norvegicus)	

bis-[4-(2,3-epoxipropoxy)phenyl]propane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	>15000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	23000 mg/kg		Rabbit	

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC <sub>50</sub>	>5000 mg/kg	6 hours	Rat (Rattus norvegicus)	

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### 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.

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**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.

**More information**

In the case of sensitive individuals may irritate the skin (redness, itching), in the case of direct inhalation into the eyes may irritate the eyes (redness, tearing, burning). Ingestion may cause nausea or abdominal pain.

**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 mixture does not contain ingredients classified as dangerous for the environment.

**Acute toxicity**

bis-[4-(2,3-epoxipropoxy)phenyl]propane				
Parameter	Value	Exposure time	Species	Environment
LC50	2 mg/l	48 hours	Fish (Leuciscus idus)	
EC50	1.8 mg/l	24 hours	Invertebrates (Daphnia magna)	
ErC50	11 mg/l	24 hours	Algae	
NOEC	0.3 mg/l		Invertebrates (Daphnia magna)	
NOEC	4.2 mg/l		Algae	

**More information**

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

**12.2. Persistence and degradability**

The mixture is difficult to biodegrade.

**12.3. Bioaccumulative potential**

Not determined, bioaccumulation is unlikely.

**12.4. Mobility in soil**

The mixture is soluble and mobile in water and soil. Danger of stream contamination.

**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**

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



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, 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

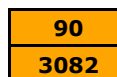
Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

#### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

#### Additional information

Hazard identification No.



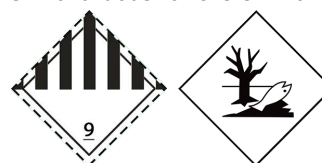
UN number

M6

Classification code

9+hazardous for the environment

Safety signs



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

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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 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

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.
H302+H332	Harmful if swallowed or if inhaled.

#### 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.
P337+P313	If eye irritation persists: Get medical advice/attention.

#### 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 <sub>50</sub>	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

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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 <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	Octanol-water partition coefficient
NOEC	No observed effect concentration
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 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.

### Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, 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.

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### 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



## 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) .

### NOVABOND (part A - sealer)

Creation date	09th May 2013	Version	5
Revision date	23rd December 2022		

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.



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) .

## NOVABOND (part B - hardening agent)

Creation date	11th May 2013	Version	4
Revision date	30th January 2023		

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

**1.1. Product identifier** NOVABOND (part B - hardening agent)  
Substance / mixture mixture

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

Two-component sealant - hardening agent

#### The use descriptors

PC 1 Adhesives, sealants  
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  
Eye Dam. 1, H318

#### Most serious adverse physico-chemical effects

Thermal decomposition at high temperatures may release dangerous decomposition products. Avoid inhalation of decomposition products. Avoid contact with open flames and heat sources. The mixture reacts with acids and oxidizing agents.

#### 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 the 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 mixture is not classified as dangerous for 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.

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) .

## NOVABOND (part B - hardening agent)

Creation date	11th May 2013	Version	4
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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.
H318	Causes serious eye damage.

#### Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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
Index: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	5-15	Acute Tox. 4, H302+H312 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Specific concentration limit: Skin Sens. 1A, H317: C ≥ 0.001 % Skin Corr. 1B, H314: C ≥ 5 % Skin Irrit. 2, H315: 1 % ≤ C < 5 %	
Index: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9	benzyl alcohol	1-3	Acute Tox. 4, H302+H332 Eye Irrit. 2, H319	1
Index: 607-732-00-5 CAS: 69-72-7 EC: 200-712-3	salicylic acid	<1	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d Specific concentration limit: Repr. 2, H361: C ≥ 3 %	



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## NOVABOND (part B - hardening agent)

Creation date	11th May 2013	Version	4
Revision date	30th January 2023		

### 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

If you feel any health problems or if in doubt, seek medical advice and provide information from this Safety Data Sheet. In the case of life-threatening conditions, resuscitate. Keep the unconscious person in a stabilized position and do not give anything by mouth. Avoid cool. Do not induce vomiting. For spontaneous vomiting, avoid inhalation of vomit.

#### If inhaled

Stop exposure immediately, rinse mouth with water, breathe fresh air. If clothing is affected, remove clothing. Keep the victim calm and protect against catching cold. If necessary (respiratory arrest or irregular breathing), perform artificial respiration with a breathing bag, not directly from mouth to mouth. If respiratory tract irritation occurs, seek medical attention.

#### If on skin

Remove affected clothing. Remove obstacles (rings, bracelets, watches, etc.) at the point of contact with the skin. Wipe off the product, wash thoroughly with water if the skin has not been damaged with soap, and treat with a regenerating cream. If signs of irritation or irritation occur, rinse with water, cover with a sterile dressing, and seek medical attention immediately. If symptoms of irritation or allergic reaction appear and persist, seek medical attention.

#### If in eyes

Rinse the eyes and their surroundings. If the victim wears contact lenses, remove them. With the eyes wide open, flush from the inner corner of the eye towards the outer with a large amount of clean, lukewarm water, especially the area under the lids. Rinse for at least 15-30 min., seek medical treatment. Wash the eyes also during transport to the doctor.

#### If swallowed

DO NOT INDUCE VOMITING, there is a risk of further damage to the digestive tract. There is a risk of perforation of the esophagus and stomach. Rinse the mouth with water and drink a glass of cold water (only if the affected person is conscious and not in pain). DO NOT GIVE ACTIVATED CHARCOAL! 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 the mucous membranes and respiratory tract with coughing. Avoid repeated or prolonged exposure.

#### If on skin

The mixture is corrosive, has strong irritating to caustic effects on 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

When the mixture is ingested, nausea, abdominal pain, and digestive problems may occur.

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

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Mixture is not flammable, fire extinguisher adapted to fire in the area.

#### Unsuitable extinguishing media

Full stream of water.



# SAFETY DATA SHEET

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## NOVABOND (part B - hardening agent)

Creation date	11th May 2013	Version	4
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**5.2. Special hazards arising from the substance or mixture**

The mixture contains components which react violently with water. Thermal decomposition at high temperatures or in the event of fire may result in hazardous decomposition products (COx). Do not inhale thermal decomposition products.

**5.3. Advice for firefighters**

Protective equipment adapt the nature of the fire.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Prevent the entry of unauthorized persons, mark, secure and isolate the escape area. Always use personal protective equipment if there is a risk of exposure. Provide adequate ventilation, do not inhale fumes. Avoid contact with skin and eyes - use personal protective equipment (twill clothing or work suit with rubber coating, boots, rubber gloves, shield or goggles. Remove clothing if clothing is contaminated. Avoid heating, ensure against contact with heat sources.

**6.2. Environmental precautions**

Secure the area of the leak, catch the leaking mixture. Prevent leakage into drains, soil, surface and underground. In the event of a large liquid leak, monitor NPK or TLV concentrations and inform the relevant state authorities and stream or sewer managers.

**6.3. Methods and material for containment and cleaning up**

In the case of a small leak, mechanically remove the mixture, wipe the remainder with a cloth, contaminate the mixture and place the cloths in a sealing waste container and discard according to section 13. Always use personal protective equipment for disposal. Wash the contaminated area with water.

**6.4. Reference to other sections**

Recommended personal protective equipment according to section 8. Dispose of unused product according to section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Follow the recommendations in the operating instructions. Ensure contact with eyes and skin, use personal protective equipment according to part 8. Ensure adequate ventilation of the work area. Ensure food confusion, avoid ingestion. Protect from open fire and heat sources. Observe the applicable health and safety legislation. Observe the principles of hygiene with chemicals, do not eat, drink, smoke. Wash hands with warm soapy water before breaks, meals, and after work.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in original packages, in dry and well-ventilated areas. Storage temperature 5 - 25 °C. Protect from fire and direct sunlight. Protect from contact with water and excessive moisture. Keep out of the reach of children. Store away from food, drink and animal feed. Follow the instructions on the label.

Storage temperature min 5 °C, max 25 °C

**7.3. Specific end use(s)**

It is not.

**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.

**Czech Republic**

**Government Regulation 330/2023 Coll.**

Substance name (component)	Type	Value
benzyl alcohol (CAS: 100-51-6)	PEL	40 mg/m <sup>3</sup>
	PEL	9 ppm
	NPK-P	80 mg/m <sup>3</sup>
	NPK-P	18 ppm



# 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) .

## NOVABOND (part B - hardening agent)

Creation date	11th May 2013	Version	4
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### DNEL

3-aminomethyl-3,5,5-trimethylcyclohexylamine					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.073 mg/m <sup>3</sup>	Acute effects local		
Workers	Inhalation	0.073 mg/m <sup>3</sup>	Chronic effects local		

benzyl alcohol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	22 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Dermal	8 mg/kg/24h	Chronic effects systemic		
Workers	Inhalation	110 mg/m <sup>3</sup>	Acute effects systemic		

salicylic acid					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Inhalation	5 mg/m <sup>3</sup>	Chronic effects local		
Workers	Dermal	2.3 mg/kg/24h	Chronic effects systemic		

### PNEC

3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	3.18 mg/l		
Freshwater environment	0.06 mg/l		
Marine water	0.006 mg/l		
Freshwater sediment	5.784 mg/kg		
Sea sediments	0.578 mg/kg		
Soil (agricultural)	1.21 mg/kg		

benzyl alcohol			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	39 mg/l		
Freshwater environment	1 mg/l		
Marine water	0.1 mg/l		
Freshwater sediment	5.27 mg/kg		
Sea sediments	0.527 mg/kg		
Soil (agricultural)	0.456 mg/kg		

salicylic acid			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	162 mg/l		

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) .

## NOVABOND (part B - hardening agent)

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salicylic acid			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.2 mg/l		
Marine water	0.02 mg/l		
Freshwater sediment	1.42 mg/kg		
Sea sediments	0.142 mg/kg		
Soil (agricultural)	0.166 mg/kg		

### 8.2. Exposure controls

Ensure adequate ventilation or extraction of the work area. Avoid contact with skin and eyes. Observe hygiene measures for handling chemicals. Do not eat, drink or smoke while working. Wash hands with lukewarm water and soap before breaks, food and work. Adapt personal protective equipment to the nature of the work.

#### Eye/face protection

Closed safety glasses.

#### Skin protection

Protective work clothes (twill or with rubber coating) and shoes. Wash affected skin, remove contaminated clothing, wash before further use. Safety gloves. When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Test in a specific workplace before first use. Replace damaged gloves.

#### Respiratory protection

Respiratory protection: Mask with combined filter against organic vapors and acid gases, type A+B. In the event of an accident or long-term exposure, use self-contained breathing apparatus.

#### 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	liquid (paste)
Colour	brown
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>150 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	>11 (undiluted)
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	
Density	1.47 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

Appearance	paste
Content of volatile organic compounds: 1 - 3%	

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) .

## NOVABOND (part B - hardening agent)

Creation date	11th May 2013	Version	4
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

In normal conditions, the mixture does not show dangerous reactions. The mixture contains a component classified as reacting violently with water.

#### 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. Heat may be released during polymerization.

#### 10.4. Conditions to avoid

Creation of over-limit concentration of vapors, discharges of static electricity.

#### 10.5. Incompatible materials

Strong oxidizing agents, strong Lewis or mineral acids.

#### 10.6. Hazardous decomposition products

In normal conditions, the mixture is not decomposed. Thermal decomposition at high temperatures may produce hazardous decomposition products (CO<sub>x</sub>).

### 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.

3-aminomethyl-3,5,5-trimethylcyclohexylamine					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	1030 mg/kg		Rat ( <i>Rattus norvegicus</i> )	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>5.01 mg/l	4 hours	Rat ( <i>Rattus norvegicus</i> )	

benzyl alcohol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	1230 mg/kg		Dog	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	4.178 mg/l	4 hours	Rat ( <i>Rattus norvegicus</i> )	

salicylic acid					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	891 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )	

#### 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.

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) .

## NOVABOND (part B - hardening agent)

Creation date	11th May 2013	Version	4
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**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 1A. 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.

**More information**

In the case of sensitive individuals may irritate the skin (redness, itching), in the case of direct inhalation into the eyes may irritate the eyes (redness, tearing, burning). Ingestion may cause nausea or abdominal pain.

**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 the mucous membranes and respiratory tract with coughing. Avoid repeated or prolonged exposure. Ingestion of the mixture may cause nausea, abdominal pain, indigestion, or, in extreme cases, disruption of the digestive tract or perforation of the stomach.

**SECTION 12: Ecological information**

**12.1. Toxicity**

The mixture does not contain ingredients classified as dangerous for the environment.

**Acute toxicity**

3-aminomethyl-3,5,5-trimethylcyclohexylamine				
Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	110 mg/l	48 hours	Fish (Leuciscus idus)	
EC <sub>50</sub>	23 mg/l	24 hours	Invertebrates (Daphnia magna)	

**More information**

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

**12.2. Persistence and degradability**

The mixture is difficult to biodegrade.

**12.3. Bioaccumulative potential**

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) .

## NOVABOND (part B - hardening agent)

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Not determined, bioaccumulation is unlikely.

**12.4. Mobility in soil**

Unspecified.

**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**

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

**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**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, 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 2735

**14.2. UN proper shipping name**

AMINES, LIQUID, CORROSIVE, N.O.S.

**14.3. Transport hazard class(es)**

8 Corrosive substances

**14.4. Packing group**

II

**14.5. Environmental hazards**

NO.

**14.6. Special precautions for user**

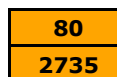
Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**Additional information**

Hazard identification No.



UN number

C7

Classification code

8

Safety signs





# SAFETY DATA SHEET

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Tunnel restriction code (E)

### Air transport - ICAO/IATA

Packaging instructions passenger 851  
Cargo packaging instructions 855

### Marine transport - IMDG

EmS (emergency plan) F-A, S-B  
MFAG 320

## 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

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H361d Suspected of damaging the unborn child.  
H302+H312 Harmful if swallowed or in contact with skin.  
H302+H332 Harmful if swallowed or if inhaled.

### Guidelines for safe handling used in the safety data sheet

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
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.

# 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) .

## NOVABOND (part B - hardening agent)

Creation date	11th May 2013	Version	4
Revision date	30th January 2023		

### 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 <sub>50</sub>	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 <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	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
Eye Dam.	Serious eye damage
Repr.	Reproductive 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.

### Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, 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.

### Information about data sources used to compile the Safety Data Sheet



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REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**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.

