

3:1 EPOXY PRIMER HARDENER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product ID EPOXY PRIMER HARDENER 3:1 UFI: 92V0-D0CW-J007-6R9U

1.2. Identified uses of the substance or mixture that are relevant and uses not recommended

Hardener, second component for epoxy primers. Professional use in industry.

1.3. Details of the safety data sheet provider

Przedsiębiorstwo RANAL Sp. z o.o. Phone: +48 34 329 45 03 Ul. Łódzka 3 Fax: +48 34 320 12 16

42-240 Rudniki, PL Registration number: 000029202

Person responsible for the preparation of the safety data sheet: ranal@ranal.pl

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Mobile: +359896663052

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web: adacolor-bg.com

1.4. Emergency phone number

+48 34 329 45 03 (from 8:00 to 15:00)

Further information: Bulgaria:

Toxicology Clinic at the Ni.I. Pirogov Hospital for Active

Treatment of Sick Patients Emergency Phone:

+359 02 9154 409 (during standard working hours except Saturday and Sunday)

+359 02 9154 346 (continuous service)

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: The mixture is classified as Dangerous. Flam. Liq. 3Flammable liquids, cat. 3; H226 Flammable liquid and vapors. Corrosion/irritation of the skin, cat. 2; H315 Causes skin irritation. Skin Irrit. 2

Eye Dam. 1. Serious eye damage/eye irritation, cat. 1; H318 Causes serious damage to the Eyes. Skin. Sens. 1Skin

sensitization, cat. 1; H317 May cause an allergic skin reaction. *

STOT SE 3STOT (specific toxicity to certain organs) — single exposure, cat. 3, irritation of the respiratory tract; H335 May cause irritation of the respiratory tract.

STOT RE 2STOT (specific toxicity to certain organs) — repeated exposure, cat. 2; H373 May cause organ damage from prolonged or repeated exposure.

Aquatic Chronic 3 Hazardous to the aquatic environment - chronic hazard, cat. 3; H412 Harmful to aquatic organisms, with a long-lasting effect.

2.2. Elements of the label

Labelling according to Regulation (EC) No 1272/2008: The product is classified and labelled in accordance with the CLP Regulations.

Pictograms indicating the type of hazard



GHS02 GHS05 GHS07 GHS08 *

Signal word: Danger.

Contains:

Fatty acids, C18-unsaturated, dimers, a polymer with a high content of oleic fatty acids and triethylene tetrahydroxy; Xylene; butane-1-ol.*

Hazard Warnings*:

H226 Flammable liquid and vapors.

H315 It causes skin irritation.

H317 May cause allergic skin reaction.* H318

causes serious eye damage.

H335 May cause respiratory irritation.*

H373 May cause organ damage with prolonged or repeated exposure. H412 Harmful to aquatic

organisms, with a long-lasting effect.

Safety recommendations*: Prevention:

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P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Smoking is prohibited.

P260 Do not inhale fumes/aerosols.

P273 Avoid discharge into the environment.*

P280 Use protective gloves/protective clothing/safety goggles/protective face mask.

Reaction:

P305+P351+P338+P310* IN CONTACT WITH EYES: Rinse gently with water for several minutes. Remove contact lenses, if any, and as far as possible. Continue rinsingimmediately. Call the TOXICOLOGY CENTER /to a doctor/. *.

P314 If you are unwell, seek medical advice/help.*

Disposal:

P501 Dispose of the contents/container in: landfills for hazardous waste.

2.3. Other hazards

No data available.

SECTION 3: COMPOSITION/INGREDIENT INFORMATION

3.1. Substances

Not applicable.

3.2. Mixture

Description: Mixture of organic matter and excipients*.

Name of the substance	Concentration	CASE	EC	Index	Registration number	Hazard class
Fatty acids, C18-unsaturated, dimers, polymer high in oleic fatty acids and triethylene tetrahydroxy *	45 - 55	68082-29-1			-	Skin Irrit. 2, H315, Eye Dam. 1, H318, Skin Sens. 1, H317, Aquatic Chronic 3, H412
Xylene	30-40*	1330-20-7	215-535-7	601-022-00-9	01-2119488216-32- xxxx	Flam. Liq. 3 H226 Acute Tox. 4 H312 Acute Tox. 4 H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 STOT RE 2 H373 Asp. Tox. 1 H304
Butane-1-ol	< 10 *	71-36-3	200-751-6	603-004-00-	01-2119484630-38- xxxx	Flame. Liq. 3 H226 Acute Tox. 4 H302 Skin Irritant. 2 H315 Eye Dam.1 H318 STOT SE 3 H335 STOT SE 3 H336
Etilbenzen*	< 8	100-41-4	202-849-4	601-023-00- 4	-	Flam. Liq. 2 H225 Acute Tox. 4 H332 STOT RE 2 H373 Asp. Tox. 1 H304
N-(3- (trimethoxysilyl)propyl)ethylenediamine*	< 1	1760-24-3	217-164-6	-	01-2119970215-39- xxxx	Skin Sens. 1B H317 Eye Dam. 1 H318
Amines, polyethylene poly-, triethylenetetramine fraction*	< 0.6	90640-67-8	292-588	-	-	Acute Tox.4 H302 Acute Tox.4 H312 Skin Corr.1B H314 Skin Sens.1 H317 Eye Dam.1 H318 Aquatic Chronic3 H412

The full meaning of hazard statements H is given in Section 16 of the safety data sheet.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Modes of exposure: Respiratory tract, digestive tract, skin contact, eye contact.

On inhalation: Remove the victim from the exposure area and provide fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, seek medical attention.

If swallowed/aspirated: Rinse mouth with water. Give the affected person plenty of water to drink. Do not give anything for drinking to an unconscious person. Do not induce vomiting. When vomiting, keep the head low so that vomit does not get into the lungs. Seek medical attention if necessary.*

Eye contact: Remove contact lenses. Rinse thoroughly with water, keeping the eyelid open, avoid strong jets of water. Seek ophthalmological care if necessary.*

In case of skin contact: Remove contaminated clothing and shoes. Wash the skin with plenty of water and soap. If skin irritations occur, seek medical attention.*

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4.2. Most significant acute symptoms and effects that occur after a certain period of time

High doses of vapor can cause: dizziness, drowsiness, headache, loss of consciousness. Skin contact may cause sensitization, dryness, and cracking.*

4.3. Indication of the need for any emergency medical care and special treatment

Symptomatic treatment. Provide the doctor with the product safety data sheet.

SECTION 5: FIRE MEASURES

5.1. Fire extinguishers

Suitable fire extinguishing agents: Carbon dioxide CO2 , dry powder, alcohol-resistant foam. In case of large fires , use pressurized water*.

Unsuitable fire extinguishing agents: Do not use concentrated water jets on the surface of the combustible mixture. This leads to the dispersion of the burning mixture and the spread of the fire.

5.2. Particular hazards arising from the substance or mixture

Flammable liquid and vapors.

Combustion products:

In the event of a fire, carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases are released. In the event of a fire and/or explosion, do not inhale smoke. *

5.3. Tips for firefighters

Use an autonomous breathing apparatus and full protective clothing. Cool tanks exposed to high temperatures with water from a safe distance, if possible, move them away from the danger area. Do not allow fire water to enter surface or groundwater. *

SECTION 6: EMERGENCY RELEASE MEASURES

6.1. Personal Protective Equipment, Protective Equipment and Emergency Procedures

Remove ignition sources. Evacuate staff to a safe place. Avoid inhaling vapors/mist/aerosol. Ensure adequate ventilation. Avoid contamination of eyes, skin and clothing. Use protective clothing and equipment.

6.2. Environmental precautions

Prevent environmental pollution. Seal sewer openings. In case of serious contamination of a water body, sewerage system or soil, notify the relevant administrative and control authorities and emergency services.

6.3. Methods and materials for restraint and cleaning

Remove the source of the leak. Collect small spills with non-flammable absorbent material. Collect large spills mechanically. Collect the contaminated soil.

6.4. Reference to other sections

Personal protection: see section 8 of the safety data sheet. Disposal methods: see section 13 of the safety data sheet.

SECTION 7: OPERATION AND STORAGE

7.1. Safe Operation Precautions

Avoid open flames and high temperatures. Work in well-ventilated areas. Do not inhale vapors or spray. Avoid contamination of eyes, skin and clothing. Do not eat or drink at the place of use. Wash your hands before each break and after finishing work. Follow the rules of personal hygiene.

7.2. Safe storage conditions, including incompatibilities

Store in tightly closed original containers. Store in a well-ventilated place. Keep away from oxidizing agents, ignition sources, and heat. Prevent electrostatic discharges.*

7.3. Specific end-use(s)

No additional data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTIVE EQUIPMENT

8.1. Control parameters Maximum

permissible concentrations:

Substance	CASE	NDS (mg/m³)	NDSCh (mg/m³)	NDSP (mg/m³)	Notes: Labelling of substances bearing the designation 'skin'
Jubstance	0.102		moodii (iiig/iii /	(9,)	**

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Xylene*	1330-20-7	10	20	-	skin		
Bhutan-1-ol	71-36-3	50	150	-	skin		
Etilbenzen*	100-41-4	200	400	-	skin		

^{**}Labelling a substance with the designation 'skin' means that the absorption of the substance through the skin can be as significant as exposure by inhalation.

	CAS NUMBER	ABSORBED SUBSTANCE	MARKED SUBSTANCE	BIOLOGICAL MATERIAL	DSB VALUES
1	.330-20-7	Xylene	Methyl hypopuric acid	Urine**	0.75 g/g creatinine

^{**}Sample is taken once, at the end of daily exposure on any day.

NEL value: Xylene	DNEL			1	212 mg/kg body
Aylene	value	workers	skin	Long-term exposure – systemic effects	weight/day
	DNEL value	workers	inhalation	acute exposure – local effects	442 mg/m³
	DNEL value	workers	inhalation	Acute exposure – systemic effects	442 mg/m3
	DNEL value	workers	inhalation	Long-term exposure – local effects	221 mg/m3
	DNEL value	workers	inhalation	Long-term exposure – systemic effects	221 mg/m³
	DNEL value	Consumers	assimilation	Long-term exposure – systemic effects	12.5 mg/kg body weight/day
	DNEL value	Consumers	skin	Long-term exposure – systemic effects	125 mg/kg body weight/day
	DNEL	Consumers	inhalation	acute exposure – local effects	260 mg/m ³
	value DNEL	Consumers	inhalation	Acute exposure – systemic effects	260 mg/m3
	value DNEL	Consumers	inhalation	Long-term exposure – local effects	65.3 mg/m ³
	value DNEL				
butane-1-ol	value DNEL	Consumers	inhalation	Long-term exposure – systemic effects	65.3 mg/m³
butane 1 of	value	workers	inhalation	Long-term exposure – systemic effects	310 mg/m3
	DNEL value	workers	inhalation	Long-term exposure – local effects	310 mg/m3
	DNEL value	Consumers	inhalation	Long-term exposure – systemic effects	55,357 mg/m3
	DNEL value	Consumers	assimilation	Long-term exposure – systemic effects	1,5625 mg/kg
	DNEL value	Consumers	inhalation	Long-term exposure – local effects	155 mg/m³
	DNEL value	Consumers	skin	Long-term exposure – systemic effects	3,125 mg/kg
Etilbenzene	DNEL value	workers	skin	Long-term exposure – systemic effects	180 mg/kg body weight/day
	DNEL value	workers	inhalation	acute exposure – local effects	293 mg/m ³
	DNEL value	workers	inhalation	Long-term exposure – systemic effects	77 mg/m3
	DNEL value	Consumers	inhalation	Long-term exposure – systemic effects	15 mg/m3
	DNEL value	Consumers	assimilation	Long-term exposure – systemic effects	1.6 mg/kg body
N-(3-	DNEL	workers	inhalation	Long-term exposure – systemic effects	weight/day 35,5 mg/m3
(trimethoxysilyl)propyl) ethylenediamine	value DNEL	workers	skin	Long-term exposure – systemic effects	5 mg/kg body weight/da
	value DNEL	Consumers	assimilation		2 E ma/ka/day
	value DNEL			Long-term exposure – systemic effects	2.5 mg/kg/day
	value DNEL	Consumers	inhalation	Long-term exposure – systemic effects	8,7 mg/m3
	value	Consumers	skin	Long-term exposure – systemic effects	2.5 mg/kg/day
amines, polyethylene	DNEL value	workers	inhalation	Long-term exposure – systemic effects	1 mg/m3
polyamine fraction, triethylenetetramine	DNEL value	workers	inhalation	Acute exposure – systemic effects	5380 mg/m3
	DNEL value	workers	skin	Long-term exposure – systemic effects	0,57 mg/kg
	DNEL value	workers	skin	Long-term exposure – local effects	0.028 mg/cm2
	DNEL value	Consumers	inhalation	Long-term exposure – systemic effects	0.29 mg/m³
	DNEL value	Consumers	inhalation	Acute exposure – systemic effects	5380 mg/m3
	DNEL value	Consumers	skin	Long-term exposure – systemic effects	0,25 mg/kg /
	DNEL	Consumers	skin	Acute exposure – systemic effects	8 mg/kg body weight/da
	Value DNEL	Consumers	skin	acute exposure – local effects	1 mg/cm2
_	value	Consumers	JKIII	deate exposure focus effects	1 1119/ 01112

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DNEL value	Consumers	assimilation	Long-term exposure – systemic effects	0.41 mg/kg/day
DNEL value	Consumers	assimilation	Acute exposure – systemic effects	20 mg/kg/day

Xylene	PNEC value	Fresh water	0.327 mg/l
	PNEC value	sea water	0.327 mg/l
	PNEC value	sediment (fresh water)	12.46 mg/kg dry sediment weight
	PNEC value	Sediment (seawater)	12.46 mg/kg dry sediment weight
	PNEC value	Biological Treatment Plant	6.58 mg/dm ³
	PNEC value	soil	2.31 mg/kg dry soil weight
outane-1-ol	PNEC value	Sweet	0.082 mg/l
	PNEC value	sea water	0.0082 mg/l
	PNEC value	Border Release	2.25 mg/l
	PNEC value	wastewater treatment plant	2476 mg/l
	PNEC value	Sludge (Fresh Water)	0,324 mg/kg
	PNEC value	Sediment (seawater)	0,0324 mg/kg
	PNEC value	soil	0,0166 mg/kg
tilbenzen	PNEC value	Fresh water	0.1 mg/l
	PNEC value	sea water	0.01 mg/l
	PNEC value	sediment (fresh water)	13.7 mg/kg dry sediment weight
	PNEC value	Sediment (seawater)	1.37 mg/kg dry weight of sediment
	PNEC value	Biological Treatment Plant	9.6 mg/dm ³
	PNEC value	soil	2.68 mg/kg dry soil weight
N-(3-(trimethoxysilyl)propyl)etilediamine	PNEC value	Fresh water	0.62 mg/l
	PNEC value	sea water	0.0062 mg/l
	PNEC value	sediment (fresh water)	0,05 mg/kg
	PNEC value	Sediment (seawater)	0,005 mg/kg
	PNEC value	Treatment Plant	25mg/dm³
	PNEC value	soil	0,0075 mg/kg
	PNEC value	Interrupted Input	0.62 mg/l
amines, polyethylene polyamine fraction,	PNEC value	Fresh water	190 μg/l
riethylenetetramine	PNEC value	sea water	38 μg/l
	PNEC value	sediment (fresh water)	95.5 mg/kg dry weight
	PNEC value	Sediment (seawater)	19.2 mg/kg dry weight
	PNEC value	wastewater treatment plant	4.25 mg/dm ³
	PNEC value	soil	19.1 mg/kg dry weight
	PNEC value	secondary poisoning	0.18 mg/kg dry weight
	PNEC value	freshwater (periodic)	200 μg/l

8.2. Appropriate Engineering

General and local aspiration ventilation. Explosion-proof electrical installation.

Individual protective measures, such as personal protective equipment:

Eye or face protection:

Safety goggles/tight-fitting safety goggles.

Hand and skin protection:

Chemical-resistant butyl rubber gloves (thickness 0.7 mm, penetration time > 480 min). Since the product is a mixture of several substances, the resistance of the materials used to make the gloves cannot be calculated in advance and therefore must be checked before use. Information on the time of penetration of the substance through the gloves must be obtained from the manufacturer of the gloves.

Protective clothing, footwear, antistatic.*

Airway protection:

In the absence of adequate ventilation, a mask with fresh air supply is recommended, and for short-term operation – an A2-P2 combined filter. When cutting, grinding or sandblasting hardened components, dust particles may form and can be inhaled.*

Environmental Exposure Control:

Do not allow the product to get into sewers, waterways, or soil.*

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

State of Aggregation * **Appearance**

Smell Melting/freezing point*

Colour

Boiling point

Flammability of materials Lower and upper explosive limits (% vol.)

at room temperature is a viscous liquid

Colourless* Characteristic* no data >150°C

flammable liquids and vapors *

lower 1.0 vol. %; Upper 7.1 vol. % (xylene)

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Flame Temperature
Self-ignition temperature
Decomposition temperature
pH
Kinematic viscosity *

Solubility in waterno data available partition coefficient, no data

Vapor pressure/hPa

Density Vapor density relative to air

Vapor density relative to air Particle characteristics *

>24°C * no data available * no data available no data

90 mm2 /s at 40°C * N-octanol/water

8-12 hPa at 20 °C(butyl acetate)*

approximately 0.9 g/cm² no data available* no data available

9.2. Other Information

No additional data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Under normal conditions, the product is not chemically reactive.

10.2. Chemical stability

Under normal conditions of storage and use, the mixture is chemically stable.

10.3. Possibility of dangerous reactions

No information available.

10.4. Conditions to be avoided

Avoid exposure to high temperatures and heat sources*.

10.5. Incompatible materials

No information available. *

10.6. Dangerous decay products

Thermal decomposition leads to the formation of carbon monoxide and other toxic gases.*

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on the hazard classes set out in Regulation (EC) No 1272/2008

There are no empirical data available on the toxicological properties of this product. The assessment is based on data on the ingredients of the product.

Acute toxicity*:

Xylene	LD50 (rat, oral)	> 2000 mg/kg
	LC50 (rat, inhalation)	> 20 milligrams/cubic
		decimeter 3 /4 hours
	LD50 (rabbit, leather)	> 2000 mg/kg
butane-1-ol	LD50(rat, female, oral)	2292 mg/kg
	LC50 (rat, inhale)	> 17.76 mg/l/4h
	LD50 (rabbit, leather)	3430 mg/kg
Etilbenzen	LD50 (rat, oral)	3500 mg/kg
	LC50 (rat, inhale)	17.8 mg/m³/4h
	LD50 (Leather)	15 400 mg/kg
	TCL0 (human, inhale)	442 mg/m³/8h
amines, polyethylene poly-, triethylenetetramine fraction	LD50 (rabbit, leather)	1465,4 mg/kg

ATEmix (oral, skin) $> 2000 \text{ mg/kg body weight * ATE}_{mix}$

(inhalation) > 20 mg/l *

The ATEmix values have been calculated using the appropriate conversion factor from Table 3.1.2 of Regulation 1272/2008/EC as amended.* The mixture is not classified as acutely toxic. There is no data confirming the danger.

Skin corrosion/ irritation: The mixture is classified as irritating to the skin.*

Serious eye damage/eye irritation: The mixture is classified as causing serious eye damage.*

Sensitization of the respiratory tract or skin: The mixture is classified as a skin sensitizer. **Germ cell mutagenicity:** The mixture is not classified as germ cell mutagenic. There are no data confirming the hazard.

Carcinogenicity *: The mixture has not been classified as carcinogenic. There are no data confirming the hazard.

Reproductive toxicity*: The mixture has not been classified as carcinogenic. There are no data confirming the hazard.

DEW (Specific Organ Toxicity) – Single Exposure*: The mixture is classified as toxic to certain organs – Single exposure. May cause respiratory irritation.

STW (Specific Organ Toxicity) – Repeated Exposure *: The mixture is not classified as toxic to certain organs – repeated exposure. **Inhalation hazard*:** The mixture is not classified as hazardous by aspiration. There is no data confirming the hazard.

11.2. Information about other hazards *

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No data available.

SECTION 12: ENVIRONMENTAL INFORMATION

12.1. Toxicity

There are no experimentally supported data available on the toxicological properties of this product. The assessment is made on the basis of data on the ingredients of the product.

Xylene	Acute toxicity to fish (Pimephales promelas)	LC50 16.1 mg/l/96h
•	acute toxicity to fish (Oncorhynchus mykiss)	LC50 2.6 mg/l/96h
	acute toxicity to aquatic invertebrates (Daphnia magna)	EC50 3.82 mg/l/48h
	acute algae toxicity	EC50 2.2 mg/L/73h
butane-1-ol	acute toxicity to fish (Pimephales promelas)	LC50 1376 mg/l/96h
	acute toxicity to Daphnia (Daphnia magna)	EC50 1328 mg/l/48h
	acute toxicity to microorganisms effect on activated sludge	EC50 4390 mg/l/17h
	acute toxicity to aquatic plants (growth rate)	EC50 225 mg/l/96h
	long-term toxicity to Daphnia magna	NOEC 4.1 mg/l/21d
Etilbenzene	toxicity to fish (Pimephales promelas)	LC50 49 mg/l/96h
	acute toxicity to aquatic invertebrates (Daphnia magna)	EC50 184 mg/l/24h
amines,	Toxicity to fish (Pimephales promelas)	LC50 330 mg/l/96h
polyethylene poly-,	acute toxicity to aquatic invertebrates (Daphnia magna)	EC50 31.1 mg/l/48h
triethylenetetramin	toxicity to algae/aquatic plants (Selenastrum capricornutum)	ErC50 20 mg/l/72h
e fraction	toxicity to daphnia and other aquatic invertebrates (chronic toxicity)	EC10 1.9 mg/l/21d

12.2. Stability and degradability

Xylene - biodegradable BCF=25.9*

Amines, polyethylene polyamine fraction, triethylenetetramine, biodegradation 0%*

12.3. Bioaccumulative capacity

No data available.

12.4. Soil Transferability

No data available. *

12.5. PBT and vPvB Evaluation Results

Substances do not meet the criteria for classification as PBT or vPvB.*

12.6. Endocrine disrupting properties *

No data available.

12.7. Other adverse effects*

No data available.

SECTION 13: WASTE DISPOSAL

13.1. Waste treatment methods

Deliver used packaging and waste products to authorized recycling companies. Dispose of in accordance with applicable local and official waste regulations – see section 15 of the safety data sheet.

Waste code:

08 01 11 Waste paints and varnishes containing organic solvents or other hazardous substances.

Packaging waste code:

15 01 10Packaging containing residues of hazardous substances or contaminated with hazardous substances (e.g. plant protection products from toxicity class I and II – very toxic or toxic).

SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMGD	IATA
14.1.	UN List Number or Identification Number*	1866	1866	1866
14.2.	Exact name of the shipment on the UN list	RESIN SOLUTION	NC	
14.3.	Transport hazard class(s)	3	3	3
	Classification code	F1	F1	F1
	Warning label No. 3	***	3	3
14.4	Packing group	III	III	III
14.5	Environmental hazards	Not	Not	Not
14.6.	Special precautions for consumers	Not applicable.	•	·

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14.7 Maritime transport of cargo in bulk according to instruments of the International Maritime Organization*

Not applicable.

SECTION 15: INFORMATION ON THE REGULATORY FRAMEWORK

15.1. Substance or mixture-specific safety, health and environmental legislation/legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH), establishing a 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 Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, as amended. *

15.2. Safety assessment of the chemical or mixture

A chemical safety assessment has not been carried out.

SECTION 16: FRIEND INFORMATION

Meaning of H-statements in Sections 2 to 15 of the safety data sheet*:

Flam. Liq. 3Flammable liquids, cat. 3. H226

Flammable liquid and

vapors. Flam. Liq. 2Flammable liquids, cat. 2.

H225 Highly flammable liquid and money. Acute Tox. 4Acute toxicity, cat. 4. H302 Harmful if swallowed.

H312 Harmful in contact with the skin.

H332 Harmful by inhalation.

Skin Corr 1B Corrosion/irritation of the skin, cat. 1B.

H314 Causes severe burns to the skin and serious damage to the Eyes. Skin

Irrit. 2Corrosion/irritation of the skin, cat. 2. H315 It causes skin irritation.

serious eye damage.

serious eye irritation.

Skin. Sense. 1 Skin sensitization, cat. 1.

H317 May cause an allergic skin reaction.

STOT SE 3STOT (specific toxicity to certain organs) — single exposure, cat. 3. H335
It can cause

irritation of the respiratory tract.

H336 It can cause drowsiness or dizziness.

STOT RE 3STOT (specific organ toxicity) — repeated exposure cat. 2. H373 May cause organ damage

with prolonged or recurrent exposition. Asp. Tox. 1Inhalation hazard, cat. 1.

H304 It can be deadly if ingested and entered the respiratory tract. Aquatic Chronic 3

Hazardous to the aquatic environment – chronic hazard, cat. 3.

H412 Harmful to aquatic organisms, with a long-lasting effect.

Explanation of abbreviations and acronyms used in the CAS Safety Data Sheet Chemical

Summary Service.

EC No. assigned to a chemical in the European Inventory List of Existing Chemical Substances (EINECS), in the European List of Notified Chemical Substances (ELINCS) or the number in the list of chemical substances listed in the publication 'Substances that are no longer polymers'.

NDS maximum permissible concentrations of substances harmful to health in the working environment.

NDSCh Maximum Permissible Instantaneous Concentration – the maximum permissible instantaneous concentration, defined as an average value that must not adversely affect the health of the worker and the health of future generations if the E is kept in the working environment for no longer than 30 minutes during the work shift. *

NDSP maximum permissible concentration.

vPvB very resistant substance with very high bioaccumulation capacity PBT

persistent, bioaccumulative and toxic substance

DL50 *lethal dose – the dose at which 50% of the tested animals die within a specified period of time LC50 *lethal concentration – the concentration at which 50% of the tested animals die within a certain period of time

Time period

EC50 *effective concentration – the effective concentration of a substance causing a reaction at 50 % of the maximum value DNEL *level that does not cause adverse effects on human health – level of exposure to a substance that does not cause adverse effects on human health

PNEC *suspected concentration with no effect – the concentration of a substance below which no harmful effects on the environment are expected

DSB * acceptable concentration in biological material – the highest acceptable level of an agent or its metabolite in the relevant biological material or the highest acceptable value of the relevant indicator determining the effect of the chemical agent on the organism

BCF * bioconcentration factor (bioconcentration) – the ratio between the concentration of a substance in an organism

SAFETY DATA SHEET

EU format in accordance with Commission Regulation (EU) 2020/878

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3:1 EPOXY PRIMER HARDENER

and its concentration in equilibrium water Status UN

NoIdentification number of the material (UN number).

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road. RIDThe rules for the international

transport of dangerous goods by rail.

IMDG International Maritime Dangerous Goods Code. IATAMhe International Air Transport Association. RID

Rules for the International Transport of Dangerous Goods by Rail.

IATA * International Air Transport Association

Recommended Restrictions of Use:

The product is intended for professional use only.

Training tips:

Read the safety data sheet before use

Other sources of information

IUCLID International Uniform Chemical Information Database ESIS European Chemical Information System ECHA website

Other information

The product described in the safety data sheet must be stored and used in accordance with good industrial practices and in accordance with all legal regulations.

The information and recommendations contained in the safety data sheet are based on our general experience and the latest knowledge and are presented in good faith. No part of this publication shall be construed as a warranty,

warranty or position, be it direct, indirect or otherwise. In all cases, it is the responsibility of the user to determine and verify that the information and recommendations are accurate, sufficient and relevant to the specific

case. The user is responsible for creating conditions for the safe use of the product and assumes responsibility for the consequences of improper use of this product.

Changes in the technical specification compared to the previous version:

Updates in the section:

11: Change in the wording of the title of subsection 11.1: Information on hazard classes defined in Regulation (EC) No 1272/2008

12: new subsection 12.6: Endocrine disrupting properties.

14: Change in wording of subsection 14.1: United Nations list number or identification number

a change in the wording of subsection 14.7: Maritime transport of cargo in bulk according to instruments of the International Maritime Organization.

Amendments to the content of sections:

1.1, 2.1, 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 6.1, 6.3, 7.1, 7.2, 8.1, 8.2, 9.1, 10.3, 10.4, 10.6, 11.1, 11.2, 12.1, 12.2, 12.4, 12.5, 12.6, 12.7, 13.1, 14.1, 14.7, 15.1, 16.

General update.

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