

HARDENER CRYSTALLINE 940

Date of creation:	23th May 2017	Version number	2.0
Date of update:	15th June 2017		

SECTION 1: Substance / mixture identification and company / undertaking identification.

1.1. Product ID. Hardener CRYSTALLINE 940
Substance / mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against.

Intended uses of the mixture
Uses advised against the mixture Do not use the product other than as specified in section 1.

1.3. Details of the supplier of the safety data sheet.

Manufacturer.

Name or trade name	POLYCORE
Address	ul. B. Ratajczaka, 13/16, Świdnik 21-040
Phone	+48 605 875 558
E-mail	office@polycore.pl
Website address	www.polycore.pl

E-mail address of the competent person responsible for the safety data sheet.

Name	POLYCORE, ul. B. Ratajczaka, 13/16, 21-040 Świdnik
E-mail	office@polycore.pl

1.4. Emergency telephone number.

Pomorskie Centrum Toksykologii, ul. Kartuska 4/6, 80 –104 Gdańsk, phone: (58) 682 19 39.
Toxicological Information Center of the Jagiellonian University - College Medicum, ul. Kopernika 15, III, 31-501 Kraków, phone: (12) 411 99 99.

SECTION 2: Hazards identification.

2.1. Classification of the substance or mixture.

Classification of the substance according to Regulation (WE) No 1272/2008.

Classification of this mixture as hazardous.

Acute Tox. 4, H302
Asp. Tox. 1, H304
Acute Tox. 3, H311
Skin Corr. 1, H314
STOT SE 3, H335
Aquatic Chronic 2, H411

The full text of all classifications and H phrases is given in section 16.

Most serious adverse effects on human health and the environment.

May cause respiratory irritation. Causes severe skin burns and eye damage. It works harmful if swallowed. Toxic in contact with skin. Toxic to aquatic life with long lasting effects.

2.2. Label elements.

Hazard pictogram



Signal word.

Danger.

Hazardous substance.

Poly (propyleneglycol) bis (2-aminopropyl benzyl alcohol).

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Hazardous substance indications.

H302	Harmful if swallowed.
H304	May be fatal if swallowed and inhaled.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary indications.

P260	Do not breathe vapors.
P280	Wear eye 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 to rinse.

2.3. Other hazards

The mixture does not contain substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (WE) No 1907/2006 (REACH) in its applicable version.

SECTION 3: Composition / information on ingredients.

3.1. Mixtures.

Chemical characterization.

Mixture of the following substances and admixtures.

The mixture contains the following hazardous substances and substances with specified maximum allowable concentrations in the working atmosphere.

Identification numbers	Name of the substance	Mass content in %	Classification according to Regulation (EC) No 1272/2008	Comments
CAS: 9046-10-0	Poly (propyleneglycol) bis (2-aminopropyl ether)	> 60	Acute Tox. 4, H302 Asp. Tox. 1, H304 Acute Tox. 3, H311 Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Chronic 2, H411	
Index: 603-057-00-5 CAS: 100-51-6 WE: 202-859-9	benzyl alcohol	> 15	Acute Tox. 4, H302+H312+H332 Eye Dam. 1, H318	

The full text of all classifications and phrases H is given in section 16.

SECTION 4: First aid measures.

4.1. Description of first aid measures.

Take care of your own safety. If health problems occur or if in doubt, inform doctor and provide information from this safety data sheet. In the event of unconsciousness, place the victim in a stable position on his side, with the head slightly tilted, and ensure that the airways are not obstructed, never induce vomiting. If the victim vomits, make sure that he does not suffocate from vomit. In situations posing a threat to life, first resuscitate the victim and provide medical assistance. Apnea - give artificial respiration immediately. Cardiac arrest - immediately perform indirect heart massage.

IF INHALED.

Take care of your own safety, do not let the exposed person walk! Stop exposure immediately, move injured into fresh air. Beware of contaminated clothes. Depending on the situation, call an ambulance and provide medical attention because of the frequent need for further observation for a period of at least 24 hours.

IF ON SKIN.

Put away contaminated clothing. Before washing or during washing, remove rings, watch, bracelets, if they are in places of contact with the body. Depending on the situation, call an ambulance and always provide medical attention. Wash the places of contact with the body with a stream (if possible) of lukewarm water for 10-30 minutes; do not use a brush, soap or neutralization. Rinse cautiously with water for several minutes. Rinse skin with water / shower.

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IF IN EYES.

Immediately rinse eyes with a stream of water, part eyelids (even with force); if the victim is wearing contact lenses, remove them immediately. Under no circumstances neutralize! Rinse for 10-30 minutes from the inner corner to the outer corner so that the other eye is not affected. Depending on the situation, call an ambulance or provide medical care as soon as possible. Everyone should go for tests, even in the case of minor contamination.

IF SWALLOWED.

CALL VOMITING! Induce vomiting only by the conscious person within a maximum of 1 hour after swallowing. If you are unsure whether to induce vomiting, contact the Toxicological Information Center and provide its employees with data on the substance or composition of the preparation from the original packaging or material safety data sheet. AFTER INGESTION OF TOXIC OR HIGH TOXIC SUBSTANCES, WITHOUT 5 MINUTES GIVE 10-20 CRUSHED ACTIVE CARBON TABLETS MIXED IN WATER - regardless of whether vomiting has been induced. Call an ambulance.

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

IF INHALED:

Inhalation of vapors may cause damage to the respiratory system. May cause respiratory irritation.

IF ON SKIN.

Causes severe skin burns.

IF IN EYES.

Causes serious eye damage.

IF SWALLOWED.

Digestive damage can occur.

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

Symptomatic treatment.

SECTION 5: Proceedings in case of fire.

5.1. Extinguishing equipment.

Suitable extinguishing equipment.

Foam resistant to alcohol, carbon dioxide, powder, water - spray stream, water mist.

Unsuitable extinguishing media.

Water - full stream.

5.2. Special hazards arising from the substance or mixture.

During a fire carbon monoxide and dioxide as well as other toxic gases may be formed. Inhalation of hazardous combustion products (pyrolysis) can lead to serious damage to health.

5.3. Information for fire brigade.

The self contained breathing apparatus with chemical protective clothing only in circumstances where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective suit. Do not allow contaminated extinguishing equipment to reach sewage system, surface and ground water.

SECTION 6: Procedures in case of accidental release.

6.1. Personal precautions, protective equipment and emergency procedures.

Use personal protective equipment. Follow the instructions given in sections 7 and 8. Do not breathe spray.

Avoid contact with eyes and skin.

6.2. Environmental precautions.

Prevent soil contamination and entry into surface or ground water. Do not allow product to reach sewage system.

6.3. Methods and materials for containment and cleaning up.

Cover the leaked product with suitable (non-flammable) absorbent material (sand, silica, soil and other suitable absorbent materials, etc.), store in well-closed vessels and dispose of in accordance with section 13. In the event of a larger amount of product leakage, inform firefighters and other competent authorities. After removing the preparation, wash the affected area with plenty of water.

Do not use solvents.

6.4. Reference to other sections.

See sections 7., 8. and 13.

SECTION 7: Handling and storage.

7.1. Precautions for safe handling.

Do not breathe spray. Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Wash your hands and affected parts of the body thoroughly after use. Use only outdoors or in a well-ventilated area. Use personal protective equipment in accordance with section 8. Comply with applicable health and safety protection laws. Avoid release to the environment.

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7.2. Conditions for safe storage, including any incompatibilities.

Store in tightly closed containers in designed for this purpose cool, dry and well ventilated places. Keep locked up.
Keep container tightly closed.

Storage class 8B - Non-flammable corrosive substances

7.3. Specific end uses.

No data available.

SECTION 8: Exposure controls / personal protection.

8.1. Control parameters.

not DNEL.

Poly(propyleneglycol)bis(2-aminopropyl ether)

Employees / consumers	Exposure	Value	Impact	Determination of value
Employees	After application	2,5 mg/kg	Long-term systemic reactions	

PNEC

Poly(propyleneglycol)bis(2-aminopropyl ether)

Exposure	Value	Determination of value
Sea water	0.0142 m/l	
Water (periodic leakage)	0.15 mg/l	
Microorganisms in sewage treatment plants	7.5 m /l	
Freshwater sediments	0.132 mg/kg	
Marine sediments	0.125 mg/kg	
Soil (agricultural)	0.0176 mg/kg	

8.2. Exposure controls.

Normal health and safety practices at work, especially good ventilation, should be observed. This can be achieved by local air extraction or effective general ventilation. If NDS-P cannot be met in this way, appropriate respiratory protection should be used. Do not eat, drink or smoke while working. After work and before breaks for food and rest, wash your hands thoroughly with soap and water.

Eye / face protection.

Safety glasses or a face shield (depending on the type of work).

Skin protection.

Hand protection: Protective gloves resistant to the product. Observing the recommendations of the particular glove manufacturer, select the appropriate thickness, material and permeability. Follow the manufacturer's other recommendations. Other protection: Protective work clothing. In case of contact with the skin, it must be thoroughly washed.

Respiratory protection.

A mask with a filter in a difficult ventilation environment.

Thermal hazard.

No data.

Environmental exposure controls.

Please observe the usual acting for the protection of the working environment, see section 6.2. Collect spillage.

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SECTION 9: Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	
Physical condition	Liquid at 20°C
Color	No data
Smell	No data
Ph	11.7 (50 g / l% solution)
Melting / freezing temperature	<-60°C
Initial boiling temperature	260°C
Flash-point	124°C
Evaporation rate	No data
Flammability (solid, gas)	No data
Upper / lower flammability / explosion limit	
bottom	0,7%
top	5%
Vapor pressure	1 at 100°C
Vapor density	No data
Relative density	No data
Solubility	No data
Water solubility	No data
Fat solubility	No data
Partition coefficient: n-octanol / water	No data
Temperature of self-ignition	No data
Decomposition Temperature	No data
Viscosity	No data
Explosive properties	No data
Oxidizing properties	No data

9.2. Other information.

Density	No data
Flash point	No data

SECTION 10: Stability and reactivity.

10.1. Reactivity.

No data.

10.2. Chemical stability.

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions.

Not known.

10.4. Conditions to avoid.

The product is stable in the normal manner of use, no decomposition occurs. Protect against flames, sparks, overheating and frost.

10.5. Incompatible material.

Protect against strong acids and alkalis, as well as oxidizing substances.

10.6. Hazardous decomposition products.

In the ordinary way of use, they do not arise. At high temperatures and in case of fire, hazardous products are produced, e.g. carbon monoxide and carbon dioxide.

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SECTION 11: Toxicological information.

11.1. Information on toxicological effects.

No toxicological data are available for the mixture.

Acute toxicity.

Harmful if swallowed. Toxic in contact with skin.

Benzyl alcohol

Exposure	Parameter	Value	Duration of exposure	Type	Gender
Orally After application	LD ₅₀	1230 mg/kg		Rat	
	LD ₅₀	2000 mg/kg		Rabbit	

Poly(propyleneglycol)bis(2-aminopropyl ether)

Exposure	Parameter	Value	Duration of exposure	Type	Gender
Orally Skin	LD ₅₀	1100 mg/kg		Rat	
	LD ₅₀	980 mg/kg		Rabbit	

Skin irritation.

Causes severe skin burns and eye damage.

Poly(propyleneglycol)bis(2-aminopropyl ether)

Exposure	Result	Method	Duration of exposure	Type
Skin	Burn	OECD 404	1-4h	Rabbit

Serious eye damage / eye irritation.

Causes severe skin burns and eye damage.

Poly(propyleneglycol)bis(2-aminopropyl ether)

Exposure	Result	Method	Duration of exposure	Type
Eyes	Serious eye damage	OECD 405		Rabbit

Respiratory or skin sensitization.

Based on available data, it does not meet the classification criteria.

Germ cell mutagenicity.

Based on available data, it does not meet the classification criteria.

Carcinogenicity.

Based on available data, it does not meet the classification criteria.

Harmful to reproduction.

Based on available data, it does not meet the classification criteria.

Specific target organ toxicity - single exposure.

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure.

Based on available data, it does not meet the classification criteria.

Aspiration hazard.

Based on available data, it does not meet the classification criteria.

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SECTION 12: Ecological information.

12.1. Toxicity.

Acute toxicity.

Toxic to aquatic life with long lasting effects.

Benzyl alcohol

Parameter	Method	Value	Duration of exposure	Type	Environment
LC ₅₀		10 mg/l	96 h	Fish (Lepomis macrochirus)	
CE ₅₀		55 mg/l	24 h	Daphnia (Daphnia magna)	

Poly(propyleneglycol)bis(2-aminopropyl ether)

Parameter	Method	Value	Duration of exposure	Type	Environment
LC ₅₀		>15 mg/l	96 h	Fish (Oncorhynchus mykiss)	
NOEC		15 mg/l	96 h	Fish (Oncorhynchus mykiss)	
CE ₅₀		15 mg/l	48 h	Daphnia (Daphnia magna)	
CE ₅₀	OECD 202	80 mg/l	48 h	Daphnia (Daphnia magna)	
NOEC		18 mg/l	48 h	Daphnia (Daphnia magna)	

12.2. Persistence and degradability.

No data.

12.3. Bioaccumulative potential.

No data.

12.4. Mobility in soil.

No data.

12.5. Results of PBT and vPvB assessment.

The product does not contain substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (WE) No 1907/2006 (REACH) as it stands.

12.6. Other adverse effects.

No data.

SECTION 13: Disposal procedures.

13.1. Waste treatment methods.

Danger of environmental pollution, follow the Act. 2013, item 21 on waste and regulations regarding waste disposal. Follow the applicable waste disposal regulations. Store unused product and contaminated packaging in closed containers for waste collection and hand them over to a person authorized to utilize waste (a specialized company) who has the right to conduct such activity. Do not pour unused product into drains. It must not be disposed of with household waste. Empty packaging can be energetically used in a waste incineration plant or collected in a landfill with appropriate classification. Perfectly cleaned packaging can be sent for recycling.

Law regulations regarding waste.

Act of 14 December 2012 on waste (Journal of Laws of 8 January 2013, item 21). Government Regulation No. 383/2001 Coll. Of Laws, on the details of waste management, as applicable. Regulation No. 93/2016 Coll., (Waste catalog) as it stands. Regulation of the Minister of the Environment of December 9, 2014 regarding the waste catalog (Journal of Laws 2014, item 1923).

Waste type code for packaging.

08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances *
15 01 10 Packaging containing residues of or contaminated by dangerous substances *

(*) - hazardous waste under Directive 91/689 / EWG (EEC) on hazardous waste.

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SECTION 14: Transport information.

14.1. UN number.

UN 2735.

14.2. UN proper shipping name.

CASTIC LIQUID AMINES I.N.O. (Poly (propylene glycol) bis (2-aminopropyl ether)).

14.3. Transport hazard classes.

8 - Corrosive materials.

14.4. Packaging group.

III - low risk materials.

14.5. Threats to the environment.

No data.

14.6. Special precautions for users.

Cross-reference in sections 4 to 8.

14.7. Transport in bulk according to Annex II of the MARPOL Convention and the IBC Code.

No data.

Additional information.

Hazard identification number (Kemler code)	80
UN number	2735
Classification code	C7
Warning stickers	9 + environmental hazard



Air transport - ICAO / IATA.

Passenger Packing instructions	852
Cargo packing instructions	856

Sea transport - IMDG.

EMS (emergency plan)	F-A, S-B
MFAG	320
Marine pollution	Yes

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SECTION 15: Information on legal provisions.

15.1. Legal regulations on safety, health and environmental protection specific to the substance or mixture.

Regulation (WE) No 1907/2006 of the European Parliament and of the Council of 18. December 2006 on the registration, assessment, authorization and reduction of chemical substances, on the establishment of the European Chemicals Agency, on the amendment of Directive 1999/45 / WE and on the annulment of Council Regulation (EWG) No 793/93, Commission Regulations (WE) No 1488/94, Council Directives 76/769 / EWG and Commission Directives 91/155 / EWG 93/67 / EWG, 93/105 / WE and 2000/21 / WE in the applicable sound. Regulation (WE) No 1272/2008 of the European Parliament and of the Council of 16. December 2008 on the classification, designation and packaging of substances and mixtures, on the amendment and annulment of Directives 67/548 / EWG and 1999/45 / WE and on the amendment of Regulation (WE) No. 1907/2006 in its current wording. Directive 2008/98 / WE of the European Parliament and of the Council of 19 November 2008 on waste. Act No. 350/2011 Coll., On chemical substances and chemical mixtures and on the amendment of certain rights (Chemical Act). Directive 94/62 / WE on packaging and packaging waste. Regulation (WE) No 694/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals. Directive 2014/40 / WE of the European Parliament and of the Council of 3 April 2014 on the production, presentation and sale of tobacco products and related products. ADR provisions Act of 25 February 2011. on chemical substances and mixtures thereof (Journal of Laws No. 63, item 322) replacing the Act of January 11, 2001 on chemical substances and preparations (Journal of Laws of 2009, No. 152, item 1222 and of 2010 No. 107, item 679 and No. 182, item 1228). Regulation of the Minister of Health of 20 April 2012 on the labeling of packaging of hazardous substances and dangerous mixtures, and certain mixtures (Journal of Laws, No. 445). Regulation of the Minister of Health of May 22, 2012 on the method of marking places, pipelines as well as containers and tanks used for storage or containing dangerous substances or dangerous mixtures (Journal of Laws No. 601). Ordinance of the Minister of Health of August 10, 2012 regarding criteria and method of classification of chemical substances and mixtures thereof (Journal of Laws No. 1018). Regulation of the Minister of Health of February 8, 2010 on the list of hazardous substances together with classification and labeling (Journal of Laws 2010 No. 27 item 140). Act of 28 October 2002 on the carriage of dangerous goods by road (Journal of Laws No. 199, item 1661 as amended). Act of 14 December 2012 on waste (Journal of Laws of 8 January 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws of 2013, item 888). Regulation of the Minister of the Environment of December 9, 2014 regarding the waste catalog (Journal of Laws of 2014, item 1923). REGULATION OF THE MINISTER OF LABOR AND SOCIAL POLICY of 6 June 2014 on the highest allowable concentrations and intensities of factors harmful to health in the work environment (Item 817).

15.2. Chemical safety assessment.

No data.

SECTION 16: Other information.

List of hazard statements used in the safety data sheet.

H302	Harmful if swallowed.
H304	May be fatal if swallowed and inhaled.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

List of precautionary statements used in the safety data sheet.

P260	Do not breathe vapors.
P280	Wear eye protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately 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 to rinse.

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Further information important from the point of view of safety and protection of human health.

The product may not be used - without the special consent of the manufacturer / importer - for purposes other than those specified in section 1. The user is responsible for compliance with all related health protection regulations.

Explanation of 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	European Union Regulation of Classification, Labelling and Packaging.
DNEL	Derived No Effect Level - does not adversely affect human health.
EC ₅₀	Half maximal Effective Concentration of the substance at which 50% of the population is affected.
EINECS	European INventory of Existing Commercial chemical Substances.
EmS	Emergency Medical Services.
IATA	International Air Transport Association.
IBC	International Bulk Chemical Code.
IC ₅₀	Half maximal Inhibitory Concentration - causing 50% inhibition.
ICAO	International Civil Aviation Organization.
IMDG	International Maritime Dangerous Goods Code.
INCI	International Nomenclature of Cosmetic Ingredients.
ISO	International Organization for Standardization.
IUPAC	International Union of Pure and Applied Chemistry.
LC ₅₀	A Lethal Concentration of a substance at which it can be expected to cause 50% of the population to die.
LD ₅₀	A Lethal Dose of a substance at which it can be expected to cause 50% of the population to die.
LOAEC	The lowest Observable Adverse Effect Concentration.
LOAEL	The Lowest Observed Adverse Effect Level.
log Kow	Octanol-water partition coefficient.
LZO	Volatile organic compounds.
MARPOL	International Convention for the Prevention of Pollution from Ships.
NDS	The highest acceptable concentration.
NDSch	Maximum allowable instantaneous concentration.
NDSP	Maximum permitted ceiling concentration.
NOAEC	The No Observed Adverse Effect Concentration.
NOAEL	The No Observed Adverse Effect Level.
NOEC	The No Observed Effect Concentration.
NOEL	The No Observed Effect Level.
OEL	Occupational Exposure Limits.
PBT	Persistent, Bioaccumulative and Toxic.
PNEC	Predicted No Effect Concentration.
ppm	Parts per million.
REACH	Registration, Evaluation, Authorization and restriction of Chemicals.
RID	The Regulation concerning the International Carriage of Dangerous Goods by Rail.
UE	European Union.
UN	A four-digit identification number of the material or object, derived from the "UN Model Regulations".
UVCB	Substances of Unknown or Variable Composition, complex reaction products or Biological materials.
vPvB	Very Persistent and Very Bioaccumulative.
WE	The European Community (EC) number listed in EINECS.
Acute Tox.	Acute Toxicity.
Aquatic Chronic	Hazardous to the aquatic environment.
Asp. Tox.	Aspiration Toxicity.
Eye Dam.	Serious eye damage.
Skin Corr.	Skin irritation.
STOT SE	Specific target organ toxicity - single exposure STOT.



SAFETY DATA SHEET

in accordance with
Regulation WE (EC) No 1907/2006
of the European Parliament
in its applicable version

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Training tips.

Familiarize employees with the recommended method of use, mandatory protective measures, first aid and prohibited methods of handling the product.

Recommended restrictions on use.

No data.

Information on the data sources used to compile the safety data sheet.

Regulation (WE) No 1907/2006 of the European Parliament and of the Council (REACH) as it stands. Regulation (WE) No 1272/2008 of the European Parliament and of the Council in its current wording. Act No. 350/2011 Coll., On chemical substances and chemical mixtures, as binding. Rules for first aid with regard to exposure to chemicals.

Statement.

The safety data sheet contains data to ensure safety and health at work and to protect the environment. The data provided correspond to the current state of knowledge and experience and comply with applicable law. They cannot be considered as a guarantee of the usefulness and usability of the product for a specific application.