

EPOXY RESIN CRYSTALLINE 940

Date of creation:	10th November 2015	Version number	2.0
Date of update:	27th June 2017		

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

- 1.1. Product ID.** CRYSTALLINE 940 laminating resin
 Substance / mixture Mixture
 Other mixture names Laminating resin
- 1.2. Relevant identified uses of the substance or mixture and uses advised against.**
 Intended uses of the mixture Resin for the production of sports equipment and other composite components
 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.
 Skin Irrit. 2, H315
 Skin Sens. 1, H317
 Eye Irrit. 2, H319
 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.
 Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
 Toxic to aquatic life with long lasting effects.
- 2.2. Label elements.**
Hazard pictogram



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Signal word.

Warning.

Hazardous substance.

Product of the reaction of bisphenol A with epichlorohydrin.

Hazardous substance indications.

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 indications.

P261	Avoid breathing vapors.
P264	Wash hands and affected parts of the body thoroughly after handling.
P280	Wear protective gloves / eye protection.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.

P362+P364	Take off contaminated clothing and wash before reuse.
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2.3. Other hazards

The mixture does not contain substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) 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
Index: 603-074-00-8 CAS: 25068-38-6 WE: 500-033-5 Registration number: 01-2119456619-26-0018	reaction product of bisphenol A with epichlorohydrin	> 50	Skin Irrit. 2 H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	

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 in case of doubt, inform a doctor and provide him with information from this safety data sheet.

IF INHALED.

Stop exposure immediately, move injured person to fresh air and protect against cold. Get medical attention if irritation, shortness of breath and other symptoms persist.

IF ON SKIN.

Put off contaminated clothing. Wash affected area with plenty of water - lukewarm if possible. If the skin has not been injured, you can use soap, soapy water or shampoo. Get medical attention if skin irritation persists.

IF IN EYES.

Rinse eyes immediately with stream of water, open eyelids (even with force); if the victim is wearing contact lenses, remove them immediately. Rinse for at least 10 minutes. Ensure medical care.

IF SWALLOWED.

Do not induce vomiting! Rinse out mouth and drink 2-5 dL of water. Provide medical care for a person with health problems.

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

IF INHALED:

Not expected.

IF ON SKIN.

May cause an allergic skin reaction.

IF IN EYES.

Eye irritation.

IF SWALLOWED.

Irritation, nausea.

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.

Fire may occur carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous combustion products (pyrolysis) can cause serious damage to health.

5.3. Information for fire brigade.

Autonomous 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 media 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. Avoid contact with eyes and skin.

6.2. Environmental precautions.

Prevent soil contamination and entering 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.), collect in well closed containers and dispose of in accordance with section 13. In case of larger quantities of product leaking, 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.

Avoid contact with eyes and skin. Contaminated work clothing should not be allowed out of the workplace. Wash your hands and affected parts of the body thoroughly after use. Use personal protective equipment in accordance with section 8. Comply with applicable health and safety protection laws. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store in tightly closed containers in designated, cool, dry and well ventilated places.

Storage class 12 - Non-flammable liquids in non-flammable packaging

Storage temperature + 5až + 25 ° C 7.3.

7.3. Specific end uses.

No data available.

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SECTION 8: Exposure controls / personal protection.

8.1. Control parameters.
not DNEL.

Product of the reaction of bisphenol A with epichlorohydrin

Employees / consumers	Exposure	Value	Impact	Determination of value
Employees	After application	8,33 mg/kg bw/day	Acute systemic reactions	
Employees	Inhalation	12,25 mg/m ³	Acute systemic reactions	
Employees	After application	8,33 mg/kg bw/day	Long-term systemic effects	
Employees	Inhalation	12,25 mg/m ³	Long-term systemic effects	
Consumers	Inhalation	3,571 mg/kg bw/day	Acute systemic reactions	
Consumers	Orally	0,75 mg/kg bw/day	Acute systemic reactions	
Consumers	After application	3,571 mg/kg bw/day	Long-term systemic effects	
Consumers	Orally	0,75 mg/kg bw/day	Long-term systemic effects	

PNEC

Product of the reaction of bisphenol A with epichlorohydrin

Exposure	Value	Determination of value
Microorganisms in sewage treatment plants	10 mg/l	
Freshwater surroundings	0,006 mg/l	
Freshwater sediments	0,9960 mg/kg	
Sea water	0,0006 mg/l	
Marine sediments	0,0996 mg/kg	
Agricultural soil	0,196 mg/kg	
Orally	11 mg/kg	

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8.2. Exposure controls.

Do not eat, drink or smoke during work. Wash hands thoroughly with soap and water after work and before breaks for food and leisure.

Eye / face protection.

Safety glasses.

Skin protection.

Hand protection: Protective gloves. 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 washed thoroughly.

Respiratory protection.

Not needed.

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.

SECTION 9: Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	Liquid at 20 ° C
Physical condition	No data
Color	No data
Smell	No data
Ph	No data
Melting / freezing temperature	No data
Initial boiling temperature	> 200°C
Flash-point	>150°C
Evaporation rate	No data
Flammability (solid, gas)	No data
Upper / lower flammability / explosion limit	No data
Vapor pressure	No data
Vapor density	0.6 at 50°C
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	Log Kow (Pow): 3, 242 při 25°C
Decomposition Temperature	No data > 200°C
Viscosity	11,0 - 14,5 Pas
Explosive properties	No data
Oxidizing properties	No data

9.2. Other information.

Density	1,17 g/cm³ at 20°C
Flash point	No data

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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.

Do not arise under normal use. At high temperatures and in case of fire, hazardous products are produced, e.g. carbon monoxide and carbon dioxide

SECTION 11: Toxicological information.

11.1. Information on toxicological effects.

No toxicological data are available for the mixture.

Acute toxicity.

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

Product of the reaction of bisphenol A with epichlorohydrin

Exposure	Parameter	Value	Duration of exposure	Type	Gender
Orally	LD ₅₀	15000 mg/kg		Rat	
After application	LD ₅₀	23000 mg/kg		Rat	

Skin irritation.

Causes serious skin irritation.

Serious eye damage / eye irritation.

Causes serious eye irritation.

Respiratory or skin sensitization.

May cause an allergic skin reaction.

Mutagenicity.

Product of the reaction of bisphenol A with epichlorohydrin

Result	Duration of exposure	Specific target organ	Type	Gender
Negative				

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Germ cell mutagenicity.

Based on available data does not meet the criteria for classification.

Carcinogenicity.

Based on available data does not meet the criteria for classification.

Reproductive toxicity.

Based on available data does not meet the criteria for classification.

Product of the reaction of bisphenol A with epichlorohydrin

	Parameter	Value	Results	Type	Gender
Impact on fertility	NOAEL	750 mg/kg bw/day			

Product of the reaction of bisphenol A with epichlorohydrin

		Value	Results	Type	Gender
Developmental toxicity	NOAEL	180 mg/kg bw/day			
Developmental toxicity	NOAEL	300 mg/kg bw/day			

Specific target organ toxicity - single exposure.

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

Specific target organ toxicity - repeated exposure.

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

Product of the reaction of bisphenol A with epichlorohydrin

Exposure	Parameter	Value	Specific target organ	Results	Type	Gender
Orally	NOAEL	50 mg/kg bw/day	Endocrine system			
After application	NOAEL	100 mg/kg bw/day				

Aspiration hazard.

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

SECTION 12: Ecological information.

12.1. Toxicity.

Acute toxicity.

Toxic to aquatic life with long lasting effects.

Product of the reaction of bisphenol A with epichlorohydrin

Parameter	Value	Duration of exposure	Type	Environment
LC ₅₀	2 mg/l	96 h	Fish (Salmo gairdneri)	
CE ₅₀	1,8 mg/l	48 h	Daphnia (Daphnia magna)	
CE ₅₀	11 mg/l	72 h	Algae (Selenastrum capricornutum)	

12.2. Persistence and degradability.

No data.

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12.3. Bioaccumulative potential.

No data.

12.4. Mobility in soil.

No data.

12.5. Results of PBT and vPvB assessment.

The product contains substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (WE) No. 1907/2006 (REACH) in its applicable version.

12.6. Other adverse effects.

No data.

SECTION 13: Disposal procedures.

13.1. Waste treatment methods.

Danger of environmental contamination, comply with 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 waste adhesives, putty and sealants containing organic solvents or other substances.

08 04 09	Hazardous *
08 04 10	Waste adhesive, putty and sealants, other than those mentioned in 08 04 09.

Waste type code for packaging.

15 01 10	Packaging containing residues or contaminated by dangerous substances *
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(*) - hazardous waste under Directive 91/689 / EWG (EEC) on hazardous waste.

SECTION 14: Transport information.

14.1. UN number.

UN 3082.

14.2. UN proper shipping name.

ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID, I.N.O. (Epoxide derivatives).

14.3. Transport hazard classes.

9 - Various hazardous materials and items.

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)	90
UN number	3082
Classification code	M6

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Warning stickers.

9 + environmental hazard.



Air transport - ICAO / IATA.

Passenger Packing instructions	964
Cargo packing instructions	964

Sea transport - IMDG.

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

SECTION 15: Information on legal provisions.

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

Regulation of the European Parliament and of the Council (WE) No. 1907/2006 of December 18, 2006 on the registration, assessment, approval and limitation of chemical substances, o establishment of the European Chemicals Agency, amending Directive 1999/45 / WE and annulling Council Regulation (EWG) No 793/93, Commission Regulation (WE) No 1488/94, Council Directive 76/769 / EWG and Commission Directives 91/155 / EWG , 93/67 / EWG, 93/105 / WE and 2000/21 / WE in its applicable version. 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 the current version. 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 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). Regulation of the Minister of Health of 10 August 2012 on the 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 of 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 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.

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.

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List of precautionary statements used in the safety data sheet.

P261	Avoid breathing vapors.
P264	Wash hands and the affected parts of the body thoroughly after use.
P280	Wear protective gloves / eye protection.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P362+P364	Take off contaminated clothing and wash before reuse.

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

The product may not be used - without the specific 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 K _{ow}	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.



SAFETY DATA SHEET

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

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Aquatic Chronic	Hazardous to the aquatic environment.
Eye Irrit.	Eye irritation.
Skin Irrit.	Skin irritation.
Skin Sens	Skin sensitization.

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 of the European Parliament and of the Council (WE) No. 1907/2006 (REACH) in its applicable wording
Regulation of the European Parliament and of the Council (WE) No. 1272/2008 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.