SAFETY DATA SHEET

POXY7 A

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	08.12.2009
Revision date	15.09.2021

1.1. Product identifier

Product name	POXY7 A
Article no.	T512105

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

Product group	Resin for 2-component glue.
Use of the substance / mixture	Epoksybasert harpiks.

1.3. Details of the supplier of the safety data sheet

Downstream user

Company name	Relekta AS
Office address	Innspurten 1A
Postal address	Postboks 6169 Etterstad
Postcode	0663
City	Oslo
Country	Norge
Telephone number	+47 22 66 04 00
Fax	+47 22 66 04 01
Email	relekta@relekta.no
Website	www.relekta.no
Enterprise No.	NO 831 881 372

1.4. Emergency telephone number

Emergency telephone	Telephone number: 22 59 13 00 Description: Norwegian Poison Information Center

	Telephone number: 112 Description: Sweden: Require Poison Information

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411
Substance / mixture hazardous properties	Causes skin irritation. Causes serious eye irritation. May cause sensitisation by skin contact. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms (CLP)

Composition on the label	Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)
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	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash hendene thoroughly after handling. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention. P501 Dispose of contents / container to an approved waste facility.

2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.
Other hazards	None of the components are listed on ECHA's Endocrine disruptor assessment list.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Reaction product: bisphenol-A-(epichlorhydrin) , epoxy resin (number average molecular weight <= 700)	CAS No.: 25068-38-6 EC No.: 500-033-5 Index No.: 603-074-00-8 REACH Reg. No.: 01-2119456619-26	Eye Irrit. 2; H319; Skin Irrit. 2; H315; Skin Sens. 1; H317; Aquatic Chronic 2; H411;	> 80 < 99 %	

Remarks, substance	CAS No 25068-38-6 has specific concentration limits: Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5%
Substance comments	See section 16 for explanation of hazard statements (H) listed above.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4. In case of unconsciousness or severe accidents, call 112. Place unconscious person on the side in the recovery position and ensure breathing.
Inhalation	Remove victim immediately from source of exposure. Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Consult a doctor if symptoms should occur.
Eye contact	Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Remove contact lenses and open eyes wide apart. Contact physician if irritation persists.
Ingestion	Rinse mouth thoroughly. Give some cream or vegetable oil. Do not induce vomiting. Seek medical advice.

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

Acute symptoms and effects	Ved oppvarming: The chemical may irritate the respiratory tract and can cause coughing. Skin contact: The chemical irritates the skin and can cause itching, burning and redness. May cause sensitisation by skin contact. Allergic skin reactions: symptoms may include redness, swelling, blistering and itching. Eye contact: Causes serious eye irritation. Irritating to eyes and may cause redness and burning.

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

Other information	Treat symptomatically. No specific information from the manufacturer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Pulver, skum eller karbondioksid.

Improper extinguishing media	Do not use water.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.
Hazardous combustion products	May develop highly toxic or corrosive fumes if heated. May include, but is not limited to: Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of nitrogen (NOx) Hydrogen chloride (HCl).

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water. Extinguishing water must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Keep away from sources of ignition - No smoking.
Personal protection measures	Provide adequate ventilation. Avoid contact with skin and eyes. Use protective equipment as referred to in section 8.

6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Clean up	Absorb in vermiculite, dry sand or earth and place into containers. Wash the contaminated surface with water. Collect in a suitable container and dispose as hazardous waste according to section 13.

6.4. Reference to other sections

Other instructions	See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Observe good chemical hygiene practices. Provide adequate ventilation. Avoid contact with eyes and skin. Persons susceptible to allergic reactions should not handle this product. Use protective equipment as referred to in section 8.

Protective safety measures

Safety measures to prevent fire	Do not use near naked flames or glowing materials. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use explosion-proof electrical / ventilating / lighting / / equipment.

Advice on general occupational hygiene	Do not eat, drink or smoke during work. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in a well-ventilated place. Keep cool. Store in tightly closed container.
Conditions to avoid	Keep away from heat, sparks and open flame. Protect from sunlight.

Conditions for safe storage

Advice on storage compatability	Keep away from: Oxidizing agents. Food and feed.
Storage temperature	Value: 20 °C

7.3. Specific end use(s)

Specific use(s)	See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters comments	Contains no substances with occupational exposure limit values. References (laws/regulations): Norwegian regulation on exposure limits: "FOR-2011-12-06-1358 Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier)".

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure	Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment. A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment	Description: Wear tight-fitting goggles or face shield. Reference to relevant standard: EN 166 (Personal eye-protection. Specifications).
Additional eye protection measures	Eye wash facilities shall be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

Hand protection

Suitable gloves type	Polyvinyl chloride (PVC).

Breakthrough time	Value: > 480 minute(s)
Thickness of glove material	Value: 0,5 mm
Hand protection equipment	Description: Use protective gloves that are suitable for the application. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN 420 (Protective gloves - General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear.

Skin protection

Recommended protective clothing	Description: Bruk egnede verneklær for å beskytte mot enhver mulighet for hudkontakt.
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2). Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking).

Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Viscous liquid.
Colour	Clear Light yellow.
Odour	Characteristic.
Odour limit	Comments: Not determined.
pH	Status: In delivery state Comments: Not relevant.
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Value: > 200 °C
Flash point	Value: > 150 °C Method: ASTM D93
Evaporation rate	Comments: Not determined.
Flammability	Not determined.
Explosion limit	Comments: Not determined.
Vapour pressure	Value: ≤ 0,0001 hPa Temperature: 20 °C

Vapour density	Comments: Not determined.
Relative density	Value: 1,16 Temperature: 25 °C
Density	Value: 1160 kg/m³ Temperature: 25 °C
Solubility	Medium: Water Comments: 0,9 g/100 ml Temperature: 23 °C
Partition coefficient: n-octanol/ water	Comments: Not relevant for a mixture.
Auto-ignition temperature	Value: > 150 °C
Decomposition temperature	Comments: Not determined.
Viscosity	Value: 12 - 14 Pa.s Comments: Dynamic. Temperature: 25 °C
Explosive properties	Not explosive.
Oxidising properties	Not oxidizing.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	May be ignited by heat, sparks or flames. Reactive with the materials listed in Section 10.5.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Arise in contact with inappropriate conditions and incompatible materials (sections 10.4 and 10.5)

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharge. Protect from direct sunlight.

10.5. Incompatible materials

Materials to avoid	Oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Other toxicological data	There are stated more test results by the producer. The results are negative except for those tests that support the already given classification of the substances (see section 3).

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Irritating to skin.
Assessment of eye damage or irritation, classification	Causes serious eye irritation.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	May cause sensitisation by skin contact.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard, classification	Based on available data, the classification criteria are not met.

Symptoms of exposure

In case of ingestion	Ingestion may cause discomfort.
In case of skin contact	Irritating and may cause redness, itching and small vesicles. Risk of sensitization to epoxy compounds.
In case of inhalation	Not relevant at normal room temperatures. When heated, irritating vapours may be formed. Inhalation of oil mist or vapors formed during heating of the chemical, will cause respiratory irritation and coughing.
In case of eye contact	Irritating to eyes and may cause redness, watering and stinging.

11.2 Other information

Other information	None of the components are listed on ECHA's Endocrine disruptor assessment list.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Value: 1,3 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Comments: Applies to CAS-nr.: 25068-38-6.
Aquatic toxicity, algae	Toxicity type: Acute Value: 9,4 mg/l Effect dose concentration: EC50 Test duration: 72 hour(s) Species: Selenastrum capricornutum Comments: Applies to CAS-nr.: 25068-38-6.
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 2 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna Method: OECD 202 Comments: Applies to CAS-nr.: 25068-38-6. Value: 0,3 mg/l Effect dose concentration: NOEC Test duration: 21 day(s) Species: Daphia sp. Comments: Applies to CAS-nr.: 25068-38-6.
Ecotoxicity	Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	Contains substances that are not considered readily biodegradable.
Biodegradability	Value: 5 % Method: OECD 301 F Comments: Applies to CAS-nr.: 25068-38-6. Test period: 28 day(s)

12.3. Bioaccumulative potential

Bioaccumulation, comments	Log Pow: 3 @ 25 °C. Applies to CAS-nr.: 25068-38-6. Contains components which have bioaccumulative potential.

12.4. Mobility in soil

Mobility	Contains component(s) with the potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The chemical contains no PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	The chemical does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Ozone depletion potential	Comments: The chemical contains no substances classified as hazardous to the ozone layer.
Additional ecological information	Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intented as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.
EWC waste code	EWC waste code: 080409 waste adhesives and sealants containing organic solvents or other dangerous substances Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes
NORSAS	7051 Paint, glue, varnish, hazardous only.
Other information	Do not empty into drains.

SECTION 14: Transport information

Dangerous goods	Yes

14.1. UN number

ADR/RID/ADN	3082
IMDG	3082
ICAO/IATA	3082

14.2. UN proper shipping name

ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name/danger releasing substance ADR/RID/ADN	Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name/danger releasing substance IMDG	Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)
ICAO/IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical name/danger releasing substance ICAO/IATA	Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)

14.3. Transport hazard class(es)

ADR/RID/ADN	9
IMDG	9
ICAO/IATA	9

14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

IMDG Marine pollutant	Yes

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No
Ship type required	Data lacking.

ADR/RID Other information

Hazard No.	90

IMDG Other information

EmS	F-A, S-F

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

References (laws/regulations)	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Norwegian regulations on waste. no. 930/2004, from the Ministry of Environment. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009.
Comments	The chemical contains ingredients that are restricted under Annex XVII nr. 3 to the REACH Regulation. Restrictions do not apply to the application of this chemical.

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	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.
CLP classification, comments	Calculation method.
Key literature references and sources for data	Suppliers Safety data sheet dated: 16.08.2021.
Abbreviations and acronyms used	EWC: European Waste Code (a code from the EU's common classification system for waste) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. LC50: Median concentration lethal to 50% of a test population. EC50: The effective concentration of substance that causes 50% of the maximum response ErC50: ErC50 means EC50 in terms og reduction of growth rate, (ErC50 = EC50(growth rate)) BCF: Bio Concentration Factor Log Kow: Partition coefficient: n-octanol / water Koc: The adsorption coefficient normalized to the organic carbon content of the soil, is an indicator of the binding capacity of a chemical on organic matter of soil and sewage sludge. OECD: Organisation for Economic Cooperation and Development. ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail IMDG: The International Maritime Dangerous Goods Code ICAO: The International Civil Aviation Organisation IATA: The International Air Transport Association
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Checking quality of information	This SDS is quality controlled by Kiwa Kompetanse AS in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.
Version	5
Prepared by	Kiwa Teknologisk Institutt as, Norway by Sharon M. Løver