

Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

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

· 1.1 Product identifier

· Trade name: ISO-POX HP 89/7 Component A (resin)

· **Article number:** 53-0001-1 · **UFI:** RPJ5-00TF-400C-3RRA

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

No further relevant information available.

· Application of the substance / the mixture Epoxy resin

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

ISO-ELEKTRA

Elektrochemische Fabrik GmbH

Im Mühlenfeld 5 31008 ELZE

DEUTSCHLAND

Telefon: +49(0)50689250

· Further information obtainable from:

Abteilung Produktsicherheit

sdb@iso-elektra.de

· 1.4 Emergency telephone number:

Giftnotruf der Charité - Universitätsmedizin Berlin

+49 (0)30 30686700

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aguatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms





GHS07 GHS09

- · Signal word Warning
- · Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

(Contd. on page 2)



Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

Trade name: ISO-POX HP 89/7 Component A (resin)

(Contd. of page 1)

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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.

P103 Read carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description**: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 25068-38-6 NLP: 500-033-5			
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205		
	Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %		
CAS: 108-32-7	propylene carbonate	>10–≤25%	
EINECS: 203-572-1	♦ Eye Irrit. 2, H319		

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

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Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

Trade name: ISO-POX HP 89/7 Component A (resin)

(Contd. of page 2)

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

108-32-7 propylene carbonate (>10-≤25%)

AGW (Germany) Long-term value: 8,5 mg/m³, 2 ppm 1(I);DFG, Y, 11

108-32-7 propylene carbonate (>10–≤25%)

AGW (Germany) Long-term value: 8,5 mg/m³, 2 ppm 1(I);DFG, Y, 11

Additional information: The lists valid during the making were used as basis.

(Contd. on page 4)



Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

Trade name: ISO-POX HP 89/7 Component A (resin)

(Contd. of page 3)

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

Physical state
 Colour:
 Odour:
 Odour threshold:
 Melting point/freezing point:
 Fluid
 Colourless
 Characteristic
 Not determined.
 Undetermined.

· Boiling point or initial boiling point and

boiling range242 °C (108-32-7 propylene carbonate)

• Flammability

Not applicable.

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined.

• Flash point: 135 °C (108-32-7 propylene carbonate) • Auto-ignition temperature: 430 °C (108-32-7 propylene carbonate)

(Contd. on page 5)



Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

Trade name: ISO-POX HP 89/7 Component A (resin)

(Contd. of page 4)

Decomposition temperature: Not determined.pH Not applicable.

· Viscosity:

Kinematic viscosity
 Dynamic at 20 °C:
 Not determined.
 1.500 mPas

· Solubility

· water: Fully miscible.

· Partition coefficient n-octanol/water (log

value) Not determined.

· Vapour pressure at 20 °C: 0 hPa

· Density and/or relative density

· Density at 20 °C: 1,2 g/cm³

Relative densityVapour densityNot determined.Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquid

· Important information on protection of health

and environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

Void

Void

· Solvent content:

Organic solvents: 12,0 %
 VOC (EC) 12,00 %
 Solids content: 0,0 %

· Change in condition

Corrosive to metals

Desensitised explosives

· Evaporation rate Not determined.

Information with regard to physical hazard

classes

· Explosives Void · Flammable gases Void · Aerosols Void Oxidising gases Void · Gases under pressure Void Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void Void Organic peroxides

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

(Contd. on page 6)



Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

Trade name: ISO-POX HP 89/7 Component A (resin)

(Contd. of page 5)

- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

108-32-7 propylene carbonate

Oral LD50 29.000 mg/kg (rat)

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

Trade name: ISO-POX HP 89/7 Component A (resin)

(Contd. of page 6)

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue		
HP4	Irritant - skin irritation and eye damage	
HP13	Sensitising	
HP14	Ecotoxic	

- · Uncleaned packaging:
- · **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN number or ID number ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction produbisphenol-A-(epichlorhydrin) epoxy resin (numbaverage molecular weight ≤ 700))
IMDG	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (reaction produ bisphenol-A-(epichlorhydrin) epoxy resin (numb average molecular weight ≤ 700)), MARIN POLLUTANT
IATA	Environmentally hazardous substance, liqu n.o.s. (reaction product: bisphenol- (epichlorhydrin) epoxy resin (number avera- molecular weight ≤ 700))
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	9 Miscellaneous dangerous substances au articles.
Label	9
14.4 Packing group	III

ADR, IMDG, IATA 14.5 Environmental hazards:	111
ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant:	Symbol (fish and tree)
ADR, IMDG, IATA 14.5 Environmental hazards:	



Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

Trade name: ISO-POX HP 89/7 Component A (resin)

	(Contd. of page
Hazard identification number (Kemler co	de) : 90
EMS Number:	, F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk according	g to
IMO instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
Transport category	3
Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S. (REACTION
	PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN
	EPOXY RESIN (NUMBER AVERAGI
	MOLECULAR WEIGHT ≤ 700)), 9, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

(Contd. on page 9)



Printing date 05.10.2023 Version number 1.1 (replaces version 1.0) Revision: 05.10.2023

Trade name: ISO-POX HP 89/7 Component A (resin)

(Contd. of page 8)

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- · National regulations:
- Technical instructions (air):

Class	Share in %
NK	12,0

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

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.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

- · Department issuing SDS: Abteilung Umweltschutz
- · Contact: -sdb@iso-elektra.de
- Date of previous version: 05.04.2023
- · Version number of previous version: 1.0
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

* Data compared to the previous version altered.

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