

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 11.09.2018

Version number 7

Revision: 11.09.2018

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

- **1.1 Product identifier**
- **Trade name:** Epilox® P 13-18
- **Article number:** 0407
- **CAS Number:**
68609-97-2
- **EC number:**
271-846-8
- **Index number:**
603-103-00-4
- **Registration number** 01-2119485289-22-0005
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU0 Other
- **Product category**
PC0 Other
PC1 Adhesives, sealants
- **Process category**
PROC10 Roller application or brushing
PROC13 Treatment of articles by dipping and pouring
PROC7 Industrial spraying
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC5 Mixing or blending in batch processes
PROC4 Chemical production where opportunity for exposure arises
PROC15 Use as laboratory reagent
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
- **Environmental release category**
ERC1 Manufacture of the substance
ERC2 Formulation into mixture
ERC5 Use at industrial site leading to inclusion into/onto article
ERC8c Widespread use leading to inclusion into/onto article (indoor)
- **Technical function**
Diluent
Viscosity modifier
- **Application of the substance / the mixture** Thinner, Diluent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
LEUNA-Harze GmbH
Am Haupttor, Bau 6619
D-06237 Leuna
Telefon 03461 43 3639
e-Mail: infomsds.harze@leuna.de
- **Further information obtainable from:**
Abteilung Qualitätssicherung
Dr. Karin Bierögel
Telefon 03461 43 4654
Telefax 03461 43 4574
Telefon außerhalb der Geschäftszeit: 03461 43 6188

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- **1.4 Emergency telephone number:**
Leitstelle Werkfeuerwehr
03461 434333

SECTION 2: Hazards identification

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



GHS07

- Skin Irrit. 2 H315 Causes skin irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
oxirane, mono[(C12-14-alkyloxy)methyl] derivs
- **Hazard statements**
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/-
P375 Fight fire remotely due to the risk of explosion.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs
- **Identification number(s)**
- **EC number:** 271-846-8
- **Index number:** 603-103-00-4

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.

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- In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:**
*If skin irritation continues, consult a doctor.
 Immediately wash with water and soap and rinse thoroughly.*
 - **After eye contact:** *Rinse opened eye for several minutes under running water.*
 - **After swallowing:** *Rinse out mouth and then drink plenty of water.*
 - **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.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** *CO₂, powder or water spray. Fight larger fires with water spray.*
- **5.2 Special hazards arising from the substance or mixture**
*Carbon monoxide (CO)
 Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:*
- **5.3 Advice for firefighters**
- **Protective equipment:**
*Wear self-contained respiratory protective device.
 Wear fully protective suit.*
- **Additional information**
*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Collect contaminated fire fighting water separately. It must not enter the sewage system.*

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** *Not required.*
- **6.2 Environmental precautions:**
*Do not allow to penetrate the ground/soil.
 Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:** *Pick up mechanically.*
- **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.*
- **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:** *Prevent any seepage into the ground.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Store receptacle in a well ventilated area.*
- **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** *Not required.*

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· DNELs**68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs**

Oral	Long term - systemic effects	1 mg/kg bw/day (general population)
	Acute - systemic effects	1,219 mg/kg bw/day (general population)
Dermal	Acute - systemic effects	10 mg/kg bw/day (general population)
		17 mg/kg bw/day (worker)
	Long term - systemic effects	2.35 mg/kg bw/day (general population)
		3.9 mg/kg bw/day (worker)
	Acute - local effects	40 mg/kg bw/day (general population)
		68 mg/kg bw/day (worker)
Inhalative	Long-term - local effects	1 mg/kg/day (general population)
		1.7 mg/kg/day (worker)
	Acute - systemic effects	7.6 mg/m ³ (general population)
		29 mg/m ³ (worker)
	Long term - systemic effects	4.1 mg/m ³ (general population)
		13.8 mg/m ³ (worker)
	Acute - local effects	2.9 mg/m ³ (general population)
		9.8 mg/m ³ (worker)
	Long-term - local effects	1.46 mg/m ³ (general population)
		0.98 mg/m ³ (worker)

· PNECs**68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs**

PNEC aqua	0.072 mg/L (Intermittent releases)
	0.0072 mg/L (fresh water)
	0.00072 mg/L (marine water)
PNEC sediment	66.77 mg/kg sediment (fresh water)
	6.677 mg/kg sediment (marine water)
PNEC STP	10 mg/l (sewage)
PNEC soil	80.12 mg/kg soil dw (soil)

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

· 8.2 Exposure controls**· 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 skin.

Avoid contact with the eyes and skin.

· Respiratory protection:

Filter A/P2

Use suitable respiratory protective device only when aerosol or mist is formed.

· Protection of hands:

Protective gloves

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

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

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· **Material of gloves**

Recommended thickness of the material: ≥ 0.4 mm

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.

Butyl rubber, BR

Nitrile rubber, NBR

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/freezing point:	10 °C (OECD 102)
Initial boiling point and boiling range:	Undetermined.
Solidification point:	10 °C

· **Flash point:** 140 °C

· **Flammability (solid, gas):** Product is not flammable.

· **Ignition temperature:** >230 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapour pressure at 20 °C:** <0.3 hPa

· Density at 20 °C:	0.9 g/cm ³
· Relative density at 20 °C	0.8937 (OECD 109)
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.

· **Solubility in / Miscibility with water:** Soluble.

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- | | |
|--|--|
| · aromatic hydrocarbons: | Soluble. |
| · organic solvents: | Miscible with many organic solvents. |
| · Partition coefficient: n-octanol/water: | Not determined. |
| · Viscosity: | |
| Dynamic at 20 °C: | 8 mPas |
| Kinematic: | Not applicable. |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
 Reacts with amines.
 Reacts with acids.
 Reacts with alkali (lyes).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Irritant gases/vapours

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.
 - **LD/LC50 values relevant for classification:**
- | | | |
|---|------|---------------------|
| 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs | | |
| Dermal | LD50 | >10,000 mg/kg (rat) |
- **Primary irritant effect:**
 - **Skin corrosion/irritation**
 Causes skin irritation.
 - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
 - **Respiratory or skin sensitisation**
 May cause an allergic skin reaction.
 - **Repeated dose toxicity** NOAEL (dermal): 100 mg/kg bw/day
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **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.

SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic toxicity:**
- | | |
|---|----------------------------|
| 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs | |
| EC50/48h | 1-10 mg/l (Dap) |
| LC50/96h | 1-10 mg/l (leuciscus idus) |
- **12.2 Persistence and degradability** Easily biodegradable
 - **12.3 Bioaccumulative potential** Does not accumulate in organisms

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- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Assessment by list): 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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must be specially treated adhering to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **TSCA (Toxic Substances Control Act):**

Substance is listed.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.

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- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Assessment by list): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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.

- **Department issuing SDS:** Abteilung Qualitätssicherung
- **Contact:** Fr. Dr. Bierögel
- **Abbreviations and acronyms:**
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ICAO: International Civil Aviation Organisation
 - ADR: Accord européen sur le transport 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
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - DNEL: Derived No-Effect Level (REACH)
 - PNEC: Predicted No-Effect Concentration (REACH)
 - 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
 - Skin Sens. 1: Skin sensitisation – Category 1
- *** Data compared to the previous version altered.**

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Annex: Exposure scenario

- **Short title of the exposure scenario**
- **Sector of Use** SU0 Other
- **Product category**
 - PC0 Other
 - PC1 Adhesives, sealants
- **Process category**
 - PROC10 Roller application or brushing
 - PROC13 Treatment of articles by dipping and pouring
 - PROC7 Industrial spraying
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 - PROC5 Mixing or blending in batch processes
 - PROC4 Chemical production where opportunity for exposure arises
 - PROC15 Use as laboratory reagent
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
- **Environmental release category**
 - ERC1 Manufacture of the substance
 - ERC2 Formulation into mixture
 - ERC5 Use at industrial site leading to inclusion into/onto article
 - ERC8c Widespread use leading to inclusion into/onto article (indoor)
- **Notes**
 - Do not use for private / domestic purposes (household).
 - The product is not intended for private use.
- **Description of the activities / processes covered in the Exposure Scenario**
 - See full text of the descriptors in section 1.
- **Conditions of use** Customary application according to section 1.
- **Duration and frequency** 5 workdays/week.
- **Worker** 8hrs (full working shift).
- **Environment** The product must not enter the sewage system or the aquatic environment.
- **Physical parameters**
 - The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Used amount per time or activity** According to directions for use.
- **Other operational conditions** Observe the general safety regulations when handling chemicals.
- **Other operational conditions affecting environmental exposure**
 - Observe section 6 of the Safety Data Sheet (Accidental release measures).
- **Other operational conditions affecting worker exposure**
 - Avoid contact with the skin, eyes and clothing.
 - Avoid contact with the skin.
 - Avoid long-term or repeated skin contact.
 - Indoor application.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures**
 - Ensure good ventilation/exhaustion at the workplace.
 - Store in cool, dry place in tightly closed receptacles.
 - Ensure that suitable extractors are available on processing machines

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· **Personal protective measures**

Tightly sealed goggles

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

Store protective clothing separately.

Keep away from foodstuffs, beverages and feed.

Do not inhale dust / smoke / mist.

Avoid contact with the skin.

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Protective gloves

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

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

· **Measures for consumer protection**

Ensure adequate labelling.

Keep locked up and out of the reach of children.

· **Environmental protection measures**

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

· **Air** No special measures required.

· **Water** Do not allow to reach ground water, water bodies or sewage system.

· **Soil** Prevent contamination of soil.

· **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.

· **Disposal measures**

Forward for special waste incineration in compliance with local legal provisions.

Ensure that waste is collected and contained.

· **Disposal procedures**

Product residues are incinerated as special waste.

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

· **Waste type** Liquid product residues

· **Exposure estimation**

· **Worker (dermal)**

The exposure estimation was carried out in accordance with ECETOC TRA.

The calculated value is smaller than the DNEL.

· **Worker (inhalation)**

The exposure estimation was carried out in accordance with ECETOC TRA.

The calculated value is smaller than the DNEL.

· **Environment** The calculated value is smaller than the PNEC.

· **Consumer** Not relevant for this Exposure Scenario.

· **Guidance for downstream users** No further relevant information available.