

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

Printing date 14.09.2015

Version number 1

Revision: 14.09.2015

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

#### - 1.1 Product identifier

- Trade name: ergo 7358

#### - 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 adhesive

Resin

#### - 1.3 Details of the supplier of the safety data sheet

##### - Manufacturer/Supplier:

KISLING DEUTSCHLAND GmbH

Drillberg

D-97980 Bad Mergentheim

Telefon: +49-(0) 791-407 27-0

Telefax: +49-(0) 791-407 27-50

- Further information obtainable from: Safety Department

- Department issuing MSDS: ergo@kisling.com

- 1.4 Emergency telephone number: Swiss Toxicological Information Centre: +41-(0) 44-2 51 51 51

### SECTION 2: Hazards identification

#### - 2.1 Classification of the substance or mixture

##### - Classification according to Regulation (EC) No 1272/2008

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.

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

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#### - 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  $\leq 700$ )

oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)

poly[oxy(methyl-1,2-ethanediyl)] and (chloromethyl)oxirane

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFEDGE)

##### - 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

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves / eye protection.

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- P273 Avoid release to the environment.
- 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.
- Additional information:**  
EUH205 Contains epoxy constituents. May produce an allergic reaction.
- 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:** Adhesive

**- Dangerous components:**

|  |   |          |
|--|---|----------|
| CAS: 25068-38-6<br>NLP: 500-033-5<br>Index number: 603-074-00-8<br>Reg.nr.: 01-2119456619-26-xxxx    | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)<br>-----<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317                              | 25-<100% |
| CAS: 68609-97-2<br>EINECS: 271-846-8<br>Index number: 603-103-00-4<br>Reg.nr.: 01-2119485289-22-xxxx | oxirane, mono[(C12-14-alkyloxy)methyl] derivs<br>-----<br>Skin Irrit. 2, H315; Skin Sens. 1, H317   | 25-<100% |
| CAS: 68318-44-5  | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with a-(2-aminomethylethyl)-w-(2-aminomethylethoxy) poly[oxy(methyl-1,2-ethanediyl)] and (chloromethyl)oxirane<br>-----<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 1-<10%   |
| CAS: 9003-36-5<br>NLP: 500-006-8<br>Reg.nr.: 01-2119454392-40-xxxx                                   | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFEDGE)<br>-----<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317  | 1-<10%   |
| CAS: 25068-38-6<br>NLP: 500-033-5<br>Index number: 603-074-00-8<br>Reg.nr.: 01-2119456619-26-xxxx    | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)<br>-----<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317                              | 1-<5%    |

- Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

- 4.1 Description of first aid measures**
- General information:** 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:**  
After contact with skin, wash immediately with plenty of soap and water.  
If skin irritation continues, consult a doctor.
- After eye contact:**  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If swallowed, do not induce vomiting: seek medical advice and show this container or label.

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- **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:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.  
Ensure adequate ventilation
- **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.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- **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 10 for information on "stability and reactivity".  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Maximum storage temperature:** 40 °C
- **Minimum storage temperature:** 2 °C

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- 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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

|            |                               |                              |
|------------|-------------------------------|------------------------------|
| Dermal     | Langzeit, Systemische Effekte | 3,9 mg/kg bw/day (ber)       |
| Inhalative | Langzeit, Systemische Effekte | 13,8 mg/m <sup>3</sup> (ber) |

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

|                         |                          |
|-------------------------|--------------------------|
| PNEC Boden              | 80,12 mg/kg Boden (-)    |
| PNEC Kläranlage         | 10 mg/l (-)              |
| PNEC Meerwasser         | 0,00072 mg/l (-)         |
| PNEC Meerwassersediment | 6,677 mg/kg Sediment (-) |
| PNEC Süßwasser          | 0,0072 mg/l (-)          |
| PNEC Süßwassersediment  | 66,77 mg/kg Sediment (-) |

- **Additional information:** The lists valid during the making were used as basis.- **8.2 Exposure controls**- **Personal protective equipment:**- **General protective and hygienic measures:**

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Clean skin thoroughly immediately after handling the product.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

- **Protection of hands:**

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

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.

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- Eye protection: Safety glasses

### SECTION 9: Physical and chemical properties

#### - 9.1 Information on basic physical and chemical properties

##### - General Information

##### - Appearance:

Form: Viscous

Colour: Yellow

- Odour: Characteristic

- Odour threshold: Not determined.

- pH-value: Not determined.

##### - Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

- Flash point: Not applicable.

- Flammability (solid, gaseous): Not applicable.

##### - Ignition temperature:

Decomposition temperature: Not determined.

- Self-igniting: Product is not self-igniting.

- Danger of explosion: Product does not present an explosion hazard.

##### - Explosion limits:

Lower: Not determined.

Upper: Not determined.

- Vapour pressure: Not determined.

- Density at 20 °C: 1,66 g/cm<sup>3</sup>

- Relative density: Not determined.

- Vapour density: Not determined.

- Evaporation rate: Not determined.

##### - Solubility in / Miscibility with water:

Not miscible or difficult to mix.

- Partition coefficient (n-octanol/water): Not determined.

##### - Viscosity:

Dynamic at 20 °C: 24 - 25 Pas

Kinematic: Not determined.

- 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 and stored according to specifications.

- 10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.

- 10.4 Conditions to avoid: No further relevant information available.

- 10.5 Incompatible materials: Strong acids and strong alkalis.

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**- 10.6 Hazardous decomposition products:**

No dangerous products of decomposition if used and stored according to specifications.

**SECTION 11: Toxicological information****- 11.1 Information on toxicological effects****- Acute toxicity****- LD/LC50 values relevant for classification:**

|  |      |                   |
|--|------|-------------------|
| <b>25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <math>\leq</math> 700)</b> |      |                   |
| Oral   | LD50 | 11400 mg/kg (rat) |

|   |      |                      |
|---|------|----------------------|
| <b>68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs</b> |      |                      |
| Dermal  | LD50 | > 10 000 mg/kg (rat) |

**- Primary irritant effect:****- Skin corrosion/irritation**

Causes skin irritation.

**- Serious eye damage/irritation**

Causes serious eye irritation.

Causes serious eye irritation.

**- Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**- Additional toxicological information:**

No experimentally found toxicological data are available for this preparation.

**- 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:**

|   |  |
|---|--|
| <b>68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs</b> |  |
| EC50/48 h   | 1 - 10 mg/l (DA)                       |
| LC50/96 h   | 1 - 10 mg/l (Leuciscus idus melanotus) |

**- 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.**- Ecotoxicological effects:****- Remark:** Toxic for fish**- Additional ecological information:****- General notes:**

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

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

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

**- 12.5 Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

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- 12.6 Other adverse effects No further relevant information available.

**SECTION 13: Disposal considerations****- 13.1 Waste treatment methods**- **Recommendation** Disposal must be made according to official regulations.**- Uncleaned packaging:**- **Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****- 14.1 UN-Number**- **ADR, IMDG, IATA**

UN3082

**- 14.2 UN proper shipping name**- **ADR**3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700))- **IMDG**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)), MARINE POLLUTANT- **IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700))**- 14.3 Transport hazard class(es)**- **ADR**- **Class**

9 (M6) Miscellaneous dangerous substances and articles.

- **Label**

9

- **IMDG, IATA**- **Class**

9 Miscellaneous dangerous substances and articles.

- **Label**

9

**- 14.4 Packing group**- **ADR, IMDG, IATA**

III

**- 14.5 Environmental hazards:**- **Marine pollutant:**

Yes

Symbol (fish and tree)

- **Special marking (ADR):**

Symbol (fish and tree)

- **Special marking (IATA):**

Symbol (fish and tree)

**- 14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

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|  |   |
|--|---|
| - <b>Danger code (Kemler):</b>   | 90  |
| - <b>EMS Number:</b>   | F-A,S-F   |
| - <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.   |
| <b>- Transport/Additional information:</b>                                       |   |
| -----  |   |
| - <b>ADR</b>   |   |
| - <b>Limited quantities (LQ)</b>   | 5L  |
| - <b>Excepted quantities (EQ)</b>  | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml  |
| - <b>Transport category</b>  | 3   |
| - <b>Tunnel restriction code</b>   | E   |
| - <b>UN "Model Regulation":</b>  | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT $\leq$ 700)), 9, III |

### SECTION 15: Regulatory information

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

#### - Abbreviations and acronyms:

- 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
- ELINCS: European List of Notified 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, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2