



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 7357
- -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 Additive
- -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

The product is not classified according to the CLP regulation.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- 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: 21645-51-2	aluminium hydroxide	25-<100%
EINECS: 244-492-7	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119529246-39-xxxx		

- 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: No special measures required.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

- After skin contact: After contact with skin, wash with plenty of water.
- After eye contact:

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

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- 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.

- 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: Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** The product is not flammable.
- 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 Avoid formation of dust.
- 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:

Pick up mechanically.

Flush away residues with plenty of water.

Dispose contaminated material as waste according to item 13.

- 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

Prevent formation of dust.

No special measures required.

- 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: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from heat and direct sunlight.
- -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 wor	kplace:
21645-51-2 aluminium hydroxide	

21645-51-2 aluminium hydroxide

AGW (Germany) Long-term value: 1,25* 10** mg/m³

2(II);*alveolengängig**einatembar; AGS, DFG

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- 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.

- **Respiratory protection:** When dust is formed: Use a breathing protection
- Protection of hands:

Protective gloves on prolonged contact with skin.

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Not required.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical a - General Information	and chemical properties
- General Information - Appearance:	
Form:	Powder
Colour:	White
- Odour:	Odourless
- Odour threshold:	Not determined.
- pH-value:	Not applicable.
- Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- Flash point:	Not applicable.
- Flammability (solid, gaseous):	Not determined.
- 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 applicable.
- Density:	Not determined.
- Relative density	Not determined.
- Vapour density	Not applicable.

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- Evaporation rate Not applicable. (Contd. of page 3)

- Solubility in / Miscibility with

water: Insoluble.

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

- Viscosity:

Dynamic: Not applicable. **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 and stored according to specifications.

- 10.3 Possibility of hazardous reactions

No dangerous reactions if used and stored according to specifications.

- 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 products of decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity
- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

- CMR effects (carcinogenity, 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: 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.
- Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

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- vPvB: Not applicable.

- 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	Void
- 14.2 UN proper shipping name - ADR, 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:	Not applicable.
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex Marpol and the IBC Code	x II of Not applicable.
- UN "Model Regulation":	Void

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 1 (Self-assessment): slightly 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.

- 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative





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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.

Eve 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.

- 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





GHS09

- Signal word Warning

- Hazard-determining components of labelling:

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

- 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

Avoid breathing mist/vapours/spray. P261 Wear protective gloves / eye protection. P280

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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 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26-xxxx	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-<100%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22-xxxx	oxirane, mono[(C12-14-alkyloxy)methyl] derivs 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 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	1-<10%
CAS: 9003-36-5 NLP: 500-006-8 Reg.nr.: 01-2119454392-40-xxxx	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	1-<10%
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26-xxxx	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 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:

CO2, 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	2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs	
Dermal	Langzeit, System	sche Effekte 3,9 mg/kg bw/day (ber)	
Inhalative	Langzeit, System	sche Effekte 13,8 mg/m³ (ber)	
- PNECs	- PNECs		
68609-97-2	68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs		
PNEC Boo	len	80,12 mg/kg Boden (-)	
PNEC Klä	ranlage	10 mg/l (-)	
PNEC Mee	erwasser	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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Not determined.

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- Eye protection: Safety glasses

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SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

- pH-value:

Form: Viscous
Colour: Yellow
- Odour: Characteristic
- Odour threshold: 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.

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/cm³
 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

1.	icute t	Oxicity	
- I	LD/LC	50 valu	es relevant for classification:
2	25068-3		action product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular bight ≤ 700)
	Oral LD50 11400 mg/kg (rat)		
6	68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs		
Ι	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 (carcinogenity, 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

EC50/48 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.
- Ecotoxical 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.

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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 (numbe
- IMDG	average molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (reaction product: bisphenol-A (epichlorhydrin) epoxy resin (number average molecula weight ≤ 700)), MARINE POLLUTANT
-IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (reaction product: bisphenol-A (epichlorhydrin) epoxy resin (number average molecula weight ≤ 700))
- 14.3 Transport hazard class(es)	
- ADR	
- Class - Label	9 (M6) Miscellaneous dangerous substances and articles.
- IMDG, IATA	
- Class - Label	9 Miscellaneous dangerous substances and articles.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 an articles.

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- Danger code (Kemler): - EMS Number:	90 F-A.S-F
	,
- 14.7 Transport in bulk according to A Marpol and the IBC Code	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: 1000 ml
- Transport category	3
- Tunnel restriction code	E
- UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
G	SUBSTANCE, LIQUID, N.O.S. (REACTIO)
	PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN
	EPOXY RESIN (NUMBER AVERAGE MOLECULA)
	WEIGHT ≤ 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

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

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

- 1.1 Product identifier

- Trade name: ergo 7359
- -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

Hardening agent/ Curing agent

- -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

- 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

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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





GHS05 GHS07

- Signal word Danger
- Hazard-determining components of labelling:

 $N'\hbox{-}(3\hbox{-aminopropyl})\hbox{-}N, N\hbox{-dimethyl propane-1,3-diamine}$

trimethylhexane-1,6-diamine

- Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

- Precautionary statements

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310 Immediately call a POISON CENTER/doctor.

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:** Adhesive

- Dangerous compone	ents:	
CAS: 10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	25-<100%
EINECS: 234-148-4	Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	
	trimethylhexane-1,6-diamine	25-<100%
EINECS: 247-134-8	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	

⁻ 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:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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 immediately and show this container or label.

-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 or alcohol resistant foam.

-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.

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- 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.

Ensure adequate ventilation

Keep away from ignition sources.

- 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:

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

Dispose of the material collected according to regulations.

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 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.

Provide alkali-resistant floor.

- 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
- -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.

- 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.

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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:

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 trough 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:** Use protective suit.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical at	nd chemical properties
- Appearance:	
Form:	Fluid
Colour:	Colourless
- 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:	0,87 g/cm ³
- Relative density	Not determined.
	(0

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- Vapour density- Evaporation rateNot determined.Not determined.

- Solubility in / Miscibility with

water: Not miscible or difficult to mix.

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

- Viscosity:

Dynamic at 25 °C: ~ 5 mPas **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

Strong exothermic reaction with acids.

Reacts with strong oxidising agents.

- 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 products of decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity

Harmful if swallowed.

- LD/LC50 values relevant for classification:

25620-58-0 trimethylhexane-1,6-diamine

Oral LD50 910 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation

Causes severe skin burns and eye damage.

- Serious eye damage/irritation

Causes serious eye damage.

- 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 (carcinogenity, 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.

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SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:
25620-58-0 trimethylhexane-1,6-diamine

EC50/24 h 31,5 mg/l (DA) EC50/72 h 29,5 mg/l (Algae)

- -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.
- Ecotoxical effects:
- Remark: Harmful to 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

- 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 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	UN2735
- 14.2 UN proper shipping name	
-ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine, TRIMETHYLHEXAMETHYLENEDIAMINES)
- IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine, TRIMETHYLHEXAMETHYLENEDIAMINES)

- 14.3 Transport hazard class(es)
- ADR



- **Class** 8 (C7) Corrosive substances.

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	(Contd. of page
- Label	8
- IMDG, IATA	
- Class	8 Corrosive substances.
- Label	8
- 14.4 Packing group - ADR, IMDG, IATA	I
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Warning: Corrosive substances.
- Danger code (Kemler):	88
- EMS Number:	F-A,S-B
- Segregation groups	Alkalis
- 14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	0
- Excepted quantities (EQ)	Code: E0
The same and and an entry	Not permitted as Excepted Quantity
- Transport category - Tunnel restriction code	1 E
	L
- IMDG	0
- Limited quantities (LQ) Excepted quantities (EQ)	0 Code: E0
- Excepted quantities (EQ)	Not permitted as Excepted Quantity
TRUBE LID LA "	
- UN "Model Regulation":	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (N
	(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine TRIMETHYLHEXAMETHYLENEDIAMINES), 8, I

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

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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- 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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