

18.05.2016

**Kit Components**

Product code	Description
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<b>7350-140225</b>	<b>ergo 7350</b>
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Components:

7348-140225	ergo 7348
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7349-160422	ergo 7349
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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 1

Revision: 19.05.2015

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

#### - 1.1 Product identifier

- Trade name: ergo 7348

#### - 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: Tox Info Suisse: 145 / +41-44-2 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)

##### - 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 dust/fume/gas/mist/vapours/spray.

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

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.

(Contd. on page 2)

DEGEN

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 1

Revision: 19.05.2015

Trade name: ergo 7348

(Contd. of page 1)

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	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	25-<100%
NLP: 500-033-5	(number average molecular weight $\leq$ 700)	
Index number: 603-074-00-8	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2,	
Reg.nr.: 01-2119456619-26-xxxx	H319; Skin Sens. 1, H317	

**- 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:** 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.

**- 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**

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.

- DEGEN -

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 1

Revision: 19.05.2015

Trade name: ergo 7348

(Contd. of page 2)

### 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.

#### - 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.

#### - 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

- **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.

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.

Clean skin thoroughly immediately after handling the product.

##### - Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 1

Revision: 19.05.2015

Trade name: ergo 7348

(Contd. of page 3)

**- 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.

**- Eye protection:** Safety glasses**SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:****Form:** Pasty**Colour:** White**- 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:** 1,3 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 25 °C:** 20 000 - 25 000 mPas

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 1

Revision: 19.05.2015

Trade name: ergo 7348

(Contd. of page 4)

<b>Kinematic:</b>	Not determined.
<b>- 9.2 Other information</b>	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.
- **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** Based on available data, the classification criteria are not met.

#### - 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>
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Oral	LD50	11400 mg/kg (rat)
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- **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:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** The product is not easily biodegradable.
- **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

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 1

Revision: 19.05.2015

**Trade name: ergo 7348**

(Contd. of page 5)

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.- **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

(Contd. on page 7)

- DEGEN -

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 1

Revision: 19.05.2015

Trade name: ergo 7348

(Contd. of page 6)

**- 14.5 Environmental hazards:**

- |                           |                               |
|---------------------------|-------------------------------|
| - Marine pollutant:       | Yes<br>Symbol (fish and tree) |
| - Special marking (ADR):  | Symbol (fish and tree)        |
| - Special marking (IATA): | Symbol (fish and tree)        |

**- 14.6 Special precautions for user**

- |                         |   |
|-------------------------|---|
| - Danger code (Kemler): | Warning: Miscellaneous dangerous substances and articles.<br>90 |
| - EMS Number:           | F-A,S-F   |

**- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

**- Transport/Additional information:****- ADR**

- |                            |  |
|----------------------------|--|
| - Limited quantities (LQ)  | 5L   |
| - Excepted quantities (EQ) | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| - Transport category       | 3  |
| - Tunnel restriction code  | E  |

**- IMDG**

- |                            |  |
|----------------------------|--|
| - Limited quantities (LQ)  | 5L   |
| - Excepted quantities (EQ) | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |

**- UN "Model Regulation":**UN3082, 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**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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

(Contd. on page 8)

DEGEN



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 1

Revision: 19.05.2015

**Trade name: ergo 7348**

(Contd. of page 7)

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

SVHC: Substances of Very High Concern

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

-DEGEN-

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

Printing date 18.05.2016

Version number 4

Revision: 18.05.2016

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

#### - 1.1 Product identifier

- Trade name: ergo 7349

#### - 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

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

- Further information obtainable from: Safety Department

- Department issuing MSDS: ergo@kisling.com

- 1.4 Emergency telephone number: Tox Info Suisse: 145 / +41-44-2 51 51 51

### SECTION 2: Hazards identification

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

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

Skin Corr. 1C 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.

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



GHS05



GHS07



GHS09

- Signal word Danger

##### - Hazard-determining components of labelling:

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Amines, polyethylenepolytriethylenetriamine fraction

Amino Polyamide

##### - Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

##### - Precautionary statements

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves / eye 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.

(Contd. on page 2)

DEGEN

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 4

Revision: 18.05.2016

**Trade name: ergo 7349**

(Contd. of page 1)

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 components:

Reg.nr.: 01-2119557899-12-xxxx	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411	50-<100%
CAS: 68082-29-1 NLP: 500-191-5	Amino Polyamide Met. Corr.1, H290; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	15-<25%
CAS: 90640-67-8 EINECS: 292-588-2	Amines, polyethylenepolytriethylenetriamine fraction Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	1-<5%

- **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:**  
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.  
Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.
- **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:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 4

Revision: 18.05.2016

Trade name: ergo 7349

(Contd. of page 2)

- **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.  
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.  
Use neutralising agent.
- **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.

(Contd. on page 4)

DEGEN

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 4

Revision: 18.05.2016

Trade name: ergo 7349

(Contd. of page 3)

- **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.  
Do not eat, drink, smoke or sniff while working.
- **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 and chemical properties

##### - General Information

##### - Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

- **pH-value:** Not determined.

##### - Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

##### - Ignition temperature:

**Decomposition temperature:** Not determined.

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

(Contd. on page 5)

-DEGEN-

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 4

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Trade name: ergo 7349

(Contd. of page 4)

<b>- Danger of explosion:</b>	Product does not present an explosion hazard.
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<b>- Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

<b>- Vapour pressure:</b>	Not determined.
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<b>- Density at 20 °C:</b>	1,05 g/cm <sup>3</sup>
<b>- Relative density</b>	Not determined.
<b>- Vapour density</b>	Not determined.
<b>- Evaporation rate</b>	Not determined.

<b>- Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
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<b>- Partition coefficient (n-octanol/water):</b>	Not determined.
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<b>- Viscosity:</b>	
<b>Dynamic at 25 °C:</b>	80 - 120 mPas
<b>Kinematic:</b>	Not determined.
<b>- 9.2 Other information</b>	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** Based on available data, the classification criteria are not met.
- **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 (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.

(Contd. on page 6)

- DEGEN -

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Trade name: ergo 7349

(Contd. of page 5)

- **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.- **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.

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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.- **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.  
(Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia, TRIETHYLENETETRAMINE), ENVIRONMENTALLY HAZARDOUS- **IMDG**

AMINES, LIQUID, CORROSIVE, N.O.S. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia, TRIETHYLENETETRAMINE), MARINE POLLUTANT

- **IATA**

AMINES, LIQUID, CORROSIVE, N.O.S. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia, TRIETHYLENETETRAMINE)

(Contd. on page 7)

— DEGEN —

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.05.2016

Version number 4

Revision: 18.05.2016

Trade name: ergo 7349

(Contd. of page 6)

**- 14.3 Transport hazard class(es)****- ADR**

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

**- IMDG**

- Class 8 Corrosive substances.  
 - Label 8

**- IATA**

- Class 8 Corrosive substances.  
 - Label 8

**- 14.4 Packing group**

- ADR, IMDG, IATA II

**- 14.5 Environmental hazards:**

- Marine pollutant: Symbol (fish and tree)  
 - Special marking (ADR): Symbol (fish and tree)

**- 14.6 Special precautions for user**

- Warning: Corrosive substances.  
 - Danger code (Kemler): 80  
 - EMS Number: F-A,S-B  
 - Stowage Category A  
 - Segregation Code SG35 Stow "separated from" acids.

**- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

**- Transport/Additional information:****- ADR**

- Limited quantities (LQ) 1L  
 - Excepted quantities (EQ) Code: E2  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 500 ml  
 - Transport category 2  
 - Tunnel restriction code E

**- IMDG**

- 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

**- UN "Model Regulation":**

UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.  
 (REACTION PRODUCTS OF DI-, TRI- AND TETRA-

(Contd. on page 8)



# Safety data sheet

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Version number 4

Revision: 18.05.2016

Trade name: ergo 7349

(Contd. of page 7)

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PROPOXYLATED PROPANE-1,2-DIOL WITH  
AMMONIA, TRIETHYLENETETRAMINE), 8, II,  
ENVIRONMENTALLY HAZARDOUS

### \* SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful 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)
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- SVHC: Substances of Very High Concern
- Met. Corr.1: Corrosive to metals – Category 1
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Corr. 1C: Skin corrosion/irritation – Category 1C
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- \* **Data compared to the previous version altered.**

- DEGEN -