

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

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

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

- 1.1 Product identifier

- Trade name: ergo 4430

- 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 Adhesives

- 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 Dam. 1 H318 Causes serious eye damage.

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

STOT SE 3 H335 May cause respiratory irritation.

- 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:

methacrylic acid, monoester with propane-1,2-diol

acrylic acid

- Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

- Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

Trade name: ergo 4430

(Contd. of page 1)

- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms



GHS05 GHS07

- Signal word Danger

- Hazard-determining components of labelling:
methacrylic acid, monoester with propane-1,2-diol
acrylic acid

- Hazard statements

H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.

- Precautionary statements

P261 Avoid breathing vapours.
P280 Wear protective gloves / eye protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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:

CAS: 27813-02-1 EINECS: 248-666-3 Index number: 607-125-00-5	methacrylic acid, monoester with propane-1,2-diol Eye Irrit. 2, H319; Skin Sens. 1, H317	15 - < 30%
CAS: 79-10-7 EINECS: 201-177-9 Index number: 607-061-00-8	acrylic acid Flam. Liq. 3, H226; Skin Corr. 1A, H314; Aquatic Acute 1, H400; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	≥ 2.5 - < 5%
CAS: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5 Reg.nr.: 01-2119463884-26-xxxx	methacrylic acid Acute Tox. 3, H311; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332	≥ 0.1 - < 1%
CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8	α,α -dimethylbenzyl hydroperoxide Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335	≥ 0.25 - < 1%
CAS: 114-83-0 EINECS: 204-055-3	2'-phenylacetohydrazide Acute Tox. 3, H301	≥ 0.1 - < 1%

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

DEGEN

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

Trade name: ergo 4430

(Contd. of page 2)

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 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.
In case of fire, the following can be released:
Nitrogen oxides (NOx)
Carbon monoxide and carbon dioxide
Danger of forming toxic pyrolysis products.
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **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
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow product to reach sewage system or any water course.
- **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.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

Trade name: ergo 4430

(Contd. of page 3)

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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
No special precautions are necessary if used and stored according to specifications.
- **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:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
- **Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 10-13
- **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:

79-10-7 acrylic acid

IOELV (European Union)	Short-term value: 59* mg/m ³ , 20* ppm Long-term value: 29 mg/m ³ , 10 ppm *reference period of 1 minute
AGW (Germany)	Long-term value: 30 mg/m ³ , 10 ppm 1(I);DFG, Y

79-41-4 methacrylic acid

AGW (Germany)	Long-term value: 180 mg/m ³ , 50 ppm 2 (I);DFG, Y
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80-15-9 α,α -dimethylbenzyl hydroperoxide

MAK (Germany)	als Dampf und Aerosol;vgl.Abschn.Xa
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- DNELs

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Dermal	Langzeit, Systemische Effekte	4.2 mg/kg bw/day (all)
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- PNECs

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Oral	PNEC Oral	mg/kg Food (all) Kein Bioaccumulationspotenzial
	PNEC Süßwasser	0.904 mg/l (all)
	PNEC Süßwassersediment	6.28 mg/kg Sediment (all)
	PNEC Meerwasser	0.904 mg/l (all)
	PNEC Boden	0.727 mg/kg Boden (all)
	PNEC Kläranlage	10 mg/l (all)
	PNEC Meerwassersediment	6.28 mg/kg Sediment (all)

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

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

Trade name: ergo 4430

(Contd. of page 4)

- 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.

- 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.

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

- Material of gloves

Find below a list of appropriate protective gloves for chemical surrounding:

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Permeation time / penetration time: = 480 minutes (DIN EN 374):

Naturlatex I , Nr. 0395 oder 0403

Chloropren Nitril I, Nr. 0727

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890

Butyl II, Nr. 0897

Butyl, Nr. 0898

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of KCL company (e-mail: vertrieb@kcl.de).

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The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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

Permeation time / penetration time: see above (material of gloves)

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

- Eye protection: Tightly sealed goggles**SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:**

Form: Fluid

Colour: Green

- Odour: Characteristic

- Odour threshold: Not determined.

- pH-value: Not determined.

(Contd. on page 6)

- DEGEN -

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

Trade name: ergo 4430

(Contd. of page 5)

- Change in condition**Melting point/freezing point:** Undetermined.**Initial boiling point and boiling range:** Undetermined.**- Flash point:** >90 °C**- Flammability (solid, gas):** Not applicable.**- Ignition temperature:****Decomposition temperature:** Not determined.**- Auto-ignition temperature:** Product is not self-igniting.**- Explosive properties:** Product does not present an explosion hazard.**- Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**- Vapour pressure:** Not determined.**- Density at 25 °C:** 1,07 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 25 °C:** 100 - 200 mPas (Brookfield (2/20))**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.

Protect from heat and direct sunlight.

- 10.3 Possibility of hazardous reactions Reacts with metal-salts.**- 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.**- LD/LC50 values relevant for classification:****79-41-4 methacrylic acid**

Oral LD50 1,320 - 2,260 mg/kg (rat)

Dermal LD50 500 - 1,000 mg/kg (rab)

Inhalative LC50/4 h 7,100 mg/l (rat)

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

Trade name: ergo 4430

(Contd. of page 6)

80-15-9 α,α -dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)
114-83-0 2'-phenylacetohydrazide		
Oral	LD50	270 mg/kg (rat)

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

Causes skin irritation.

- 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**

May cause respiratory irritation.

- 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.**- 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.**- European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

(Contd. on page 8)

- DEGEN -

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

Trade name: ergo 4430

(Contd. of page 7)

- **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 II of Marpol and the IBC Code	Not applicable.
- UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

- **Relevant phrases**
- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- 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.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 9)

DEGEN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2017

Version number 3

Revision: 16.09.2017

Trade name: ergo 4430

(Contd. of page 8)

- 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

Flam. Liq. 3: Flammable liquids – Category 3

Org. Perox. E: Organic peroxides – Type E/F

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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

- * Data compared to the previous version altered.

- DEGEN -