

03.02.2022

### Kit Components

Product code	Description
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<b>1670-220119</b>	<b>ergo 1670</b>
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Components:

1668-220119	ergo 1668 - Component A ergo 1670
1664-200407	ergo 1664 - Component B ergo 1665, ergo 1670. ergo 1675, ergo 1680

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

Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

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

#### - 1.1 Product identifier

- Trade name: **ergo 1668 - Component A ergo 1670**

#### - 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 AG

Motorenstrasse 102

CH-8620 Wetzikon

Tel: +41- 58-272 0 272

- Further information obtainable from: Product safety department

- Department issuing MSDS: ergo@kisling.com

#### - 1.4 Emergency telephone number:

Tox Info Suisse: 145 / +41-44-2 51 51 51

+49-700-24 112 112 (KAR)

+1 872 5888271

### SECTION 2: Hazards identification

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

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

Flam. Sol. 1 H228 Flammable solid.

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



GHS02

GHS05

GHS07

- Signal word Danger

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

methyl methacrylate

methacrylic acid

2-Propenoic acid, 2-methyl-, 2-hydroxyethylester, phosphate

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

##### - Hazard statements

H228 Flammable solid.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

(Contd. on page 2)

CH-EN

# Safety data sheet

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

Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

**Trade name: ergo 1668 - Component A ergo 1670**

(Contd. of page 1)

**- Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P261 Avoid breathing vapours.
- P280 Wear protective gloves / eye protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.

**- 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: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	> 50 - ≤ 100%
CAS: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5	methacrylic acid Acute Tox. 3, H311; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335	≥ 3 - < 5%
CAS: 28961-43-5 NLP: 500-066-5	Propylidyntrimethanol, ethoxylated, esters with acrylic acid Eye Irrit. 2, H319; Skin Sens. 1, H317	> 1 - ≤ 5%
CAS: 52628-03-2 EINECS: 258-053-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethylester, phosphate Eye Dam. 1, H318; Skin Irrit. 2, H315	> 1 - < 3%
CAS: 868-77-9 EINECS: 212-782-2 Index number: 607-124-00-X	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 0.1 - < 1%
EC number: 911-490-9	N,N-Bis-(2-hydroxyethyl)-para-toluidine, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥ 0.1 - < 1%
CAS: 13586-82-8 EINECS: 237-015-9	2-ethylhexanoic acid, cobalt salt Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥ 0.1 - < 0.25%

**- 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.

(Contd. on page 3)

## Safety data sheet

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

Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

**Trade name: ergo 1668 - Component A ergo 1670**

(Contd. of page 2)

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:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**- For safety reasons unsuitable extinguishing agents:** Water with full jet

**- 5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

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**

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.

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.

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**

Fumes can combine with air to form an explosive mixture.

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 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.

(Contd. on page 4)

CH-EN

# Safety data sheet

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

Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

Trade name: ergo 1668 - Component A ergo 1670

(Contd. of page 3)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store receptacle in a well ventilated area.
- **Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 4.1 B
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

#### - Ingredients with limit values that require monitoring at the workplace:

##### 80-62-6 methyl methacrylate

MAK (Switzerland)	Short-term value: 420 mg/m <sup>3</sup> , 100 ppm Long-term value: 210 mg/m <sup>3</sup> , 50 ppm S SSc;
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##### 79-41-4 methacrylic acid

MAK (Switzerland)	Short-term value: 360 mg/m <sup>3</sup> , 100 ppm Long-term value: 180 mg/m <sup>3</sup> , 50 ppm SSc;
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#### - DNELs

##### 80-62-6 methyl methacrylate

Dermal	Longterm System	13.67 mg/kg bw/day (Worker)
Inhalative	Longterm System	208 mg/m <sup>3</sup> (Worker)

#### - PNECs

##### 80-62-6 methyl methacrylate

PNEC Freshwater	0.94 mg/l
PNEC Freshwater sed	5.74 mg/kg
PNEC Marinewater	0.94 mg/l
PNEC Soil	1.47 mg/kg

- **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.

##### - Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.  
Filter ABEK

##### - Protection of hands:

Protective gloves (EN 374)  
Check protective gloves prior to each use for their proper condition.

(Contd. on page 5)

## Safety data sheet

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

Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

**Trade name: ergo 1668 - Component A ergo 1670**

(Contd. of page 4)

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: Tightly sealed goggles**

### SECTION 9: Physical and chemical properties

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

**- General Information**

**- Appearance:**

**Form:** Pasty  
ADR 2.3.4: solid

**Colour:** midnight blue

**- Odour:** Characteristic

**- Odour threshold:** Not determined.

**- pH-value at 20 °C:** 4 - 5 (10%)

**- Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** Undetermined.

**- Flash point:** 10 °C

**- Flammability (solid, gas):** Not determined.

**- Decomposition temperature:** Not determined.

**- Auto-ignition temperature:** Product is not self-igniting.

**- Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**- Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

**- Oxidising properties:** Not determined.

**- Vapour pressure:** Not applicable.

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

**- Relative density:** Not determined.

**- Vapour density:** Not applicable.

**- Evaporation rate:** Not applicable.

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

Insoluble.

**- Partition coefficient: n-octanol/water:** Not determined.

**- Viscosity:**

**Dynamic:** Not applicable.

**Kinematic:** Not applicable.

(Contd. on page 6)

# Safety data sheet

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

Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

Trade name: ergo 1668 - Component A ergo 1670

(Contd. of page 5)

**- 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** Forms explosive gas mixture with air.
- **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:****80-62-6 methyl methacrylate**

Oral	LD50	7,872 mg/kg (Rat, male/female)
Dermal	LD50	> 5,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	78,000 mg/l (Rat, male/female)

**79-41-4 methacrylic acid**

Oral	LD50	1,320 - 2,260 mg/kg (Rat, male/female)
Dermal	LD50	500 - 1,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	7,100 mg/l (Rat, male/female)

**868-77-9 2-hydroxyethyl methacrylate**

Oral	LD50	5,050 mg/kg (Rat, male/female)
Dermal	LD50	3,000 mg/kg (Rabbit)

**N,N-Bis-(2-hydroxyethyl)-para-toluidine, ethoxylated**

Oral	LD50	619 mg/kg
Dermal	LD50	> 2,000 mg/kg

- **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.

(Contd. on page 7)

CH-EN

# Safety data sheet

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

Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

**Trade name: ergo 1668 - Component A ergo 1670**

- **Aspiration hazard** Based on available data, the classification criteria are not met.

(Contd. of page 6)

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Toxicity to fish:**

**868-77-9 2-hydroxyethyl methacrylate**

LC50/96 h | 213 - 242 mg/l (Pimephales promelas)

- **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 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.

- **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**

UN3175

- **14.2 UN proper shipping name**

- **ADR**

3175 SOLIDS CONTAINING FLAMMABLE LIQUID,  
N.O.S. (METHYL METHACRYLATE, MONOMER,  
STABILIZED)

- **IMDG, IATA**

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.  
(METHYL METHACRYLATE, MONOMER,  
STABILIZED)

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

- **ADR**



- **Class**

4.1 (F1) Flammable solids, self-reactive substances,  
polymerizing substances and solid desensitized explosives

(Contd. on page 8)



## Safety data sheet

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


Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

Trade name: ergo 1668 - Component A ergo 1670

(Contd. of page 7)

- Label	4.1
- IMDG, IATA	
	
- Class	4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
- Label	4.1
- 14.4 Packing group	
- ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Warning: Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
- Hazard identification number (Kemler code):	40
- EMS Number:	F-A,S-I
- Stowage Category	B
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	1 kg
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
- Transport category	2
- Tunnel restriction code	E
- IMDG	
- Limited quantities (LQ)	1 kg
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
- UN "Model Regulation":	UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE, MONOMER, STABILIZED), 4.1, II

### 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  
H225 Highly flammable liquid and vapour.

(Contd. on page 9)

CH-EN

# Safety data sheet

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

Printing date 03.02.2022

Version number 1

Revision: 03.02.2022

**Trade name: ergo 1668 - Component A ergo 1670**

(Contd. of page 8)

H302 Harmful if swallowed.  
 H311 Toxic 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.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

**- Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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. 2: Flammable liquids – Category 2  
 Flam. Sol. 1: Flammable solids – Category 1  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 3: Acute toxicity – Category 3  
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
 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  
 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

CH-EN

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

Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

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

#### - 1.1 Product identifier

- Trade name: **ergo 1664 - Component B ergo 1665, ergo 1670, ergo 1675, ergo 1680**

#### - 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 AG

Motorenstrasse 102

CH-8620 Wetzikon

Tel: +41- 58-272 0 272

- Further information obtainable from: Product safety department

- Department issuing MSDS: ergo@kisling.com

#### - 1.4 Emergency telephone number:

Tox Info Suisse: 145 / +41-44-2 51 51 51

+49-700-24 112 112 (KAR)

+1 872 5888271

### SECTION 2: Hazards identification

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

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

Org. Perox. E H242 Heating may cause a fire.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very 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



GHS02

GHS07

GHS09

- Signal word Warning

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

dibenzoyl peroxide

bis[4-(2,3-epoxypropoxy)phenyl]propane

##### - Hazard statements

H242 Heating may cause a fire.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

##### - Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours.

(Contd. on page 2)

# Safety data sheet

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

Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

**Trade name: ergo 1664 - Component B ergo 1665, ergo 1670. ergo 1675, ergo 1680**

(Contd. of page 1)

- P280 Wear protective gloves / eye protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P410 Protect from sunlight.  
 P411+P235 Store at temperatures not exceeding 30°C. Keep cool.
- **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: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0	dibenzoyl peroxide Org. Perox. B, H241; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319; Skin Sens. 1, H317	> 30 - ≤ 100%
CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2	bis[4-(2,3-epoxypropoxy)phenyl]propane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 2.5 - < 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.  
 Put contaminated clothing in water to prevent fire.
- **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.

(Contd. on page 3)

CH-EN

# Safety data sheet

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

Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

**Trade name: ergo 1664 - Component B ergo 1665, ergo 1670. ergo 1675, ergo 1680**

(Contd. of page 2)

**- 5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

May cause fire. May re-ignite itself after fire is extinguished. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst. Runoff to sewer may create fire or explosion hazard.

**- 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.

**- 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:**

Pick up mechanically.

Flush away residues with plenty of water.

Never use saw-dust or other flammable substances.

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

Never replace spilled product into original containers (danger of decomposition).

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** Keep receptacles tightly sealed.

**- Information about fire - and explosion protection:**

Keep away from heat and direct sunlight.

The product may cause fire due to release of oxygen. May be explosive, when combined with flammable substances.

Violent release of gases on decomposition.

**- 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 flammable substances.

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

Store away from foodstuffs.

**- Further information about storage conditions:**

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Store in a cool place.

**- Maximum storage temperature:** 30 °C

**- Minimum storage temperature:** 5 °C

**- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 5.2

(Contd. on page 4)

# Safety data sheet

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

Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

**Trade name: ergo 1664 - Component B ergo 1665, ergo 1670, ergo 1675, ergo 1680**

(Contd. of page 3)

- 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

## - 8.1 Control parameters

- Additional information about design of technical facilities: No further data; see item 7.

## - Ingredients with limit values that require monitoring at the workplace:

**94-36-0 dibenzoyl peroxide**

MAK (Switzerland)	Short-term value: 5 e mg/m <sup>3</sup> Long-term value: 5 e mg/m <sup>3</sup>
-------------------	---

## - DNELs

**94-36-0 dibenzoyl peroxide**

Dermal	Longterm System	6.6 mg/kg bw/day (General population)
Inhalative	Acute, System	6.6 mg/m <sup>3</sup> (General population)
	Longterm System	11.75 mg/m <sup>3</sup> (General population)

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Oral	Acute, System	0.5 mg/kg (General population)
Dermal	Longterm System	0.0893 mg/kg bw/day (General population) 0.75 mg/kg bw/day (Worker)
	Inhalative	Longterm System

## - PNECs

**94-36-0 dibenzoyl peroxide**

Oral	PNEC oral	6.67 mg/kg Food (General population)
	PNEC Freshwater	0.000602 mg/l (General population)
	PNEC Freshwater sed	0.338 mg/kg (General population)
	PNEC Marinewater	0.000602 mg/l (General population)
	PNEC Soil	0.0758 mg/kg (General population)
	PNEC STP	0.35 mg/l (General population)
	PNEC Marinewater sed	0.0338 mg/kg (General population)

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Oral	PNEC oral	11 mg/kg Food
	PNEC Freshwater	0.006 mg/l
	PNEC Freshwater sed	0.341 mg/kg
	PNEC Marinewater	0.001 mg/l
	PNEC Soil	0.065 mg/kg
	PNEC STP	10 mg/l
	PNEC Marinewater sed	0.034 mg/kg

- 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.

(Contd. on page 5)

## Safety data sheet

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

Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

**Trade name: ergo 1664 - Component B ergo 1665, ergo 1670. ergo 1675, ergo 1680**

(Contd. of page 4)

**- Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

**- Protection of hands:**

Protective gloves (EN 374)

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

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

**- Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**- Penetration time of glove material**

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

**- 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:****Form:** Pasty**Colour:** Blue**- Odour:** Characteristic**- Odour threshold:** Not determined.**- pH-value at 20 °C:** 6 - 7 (10%)**- Change in condition****Melting point/freezing point:** Undetermined.**Initial boiling point and boiling range:** Undetermined.**- Flash point:** Not applicable.**- Flammability (solid, gas):** May cause fire.**- Decomposition temperature:**  $\geq 50$  °C (SADT)**- 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.**- Oxidising properties** Not determined.**- Density at 20 °C:** 1.15 g/cm<sup>3</sup>**- Relative density** Not determined.**- Vapour density** Not applicable.**- Evaporation rate** Not applicable.**- Solubility in / Miscibility with water:**

Insoluble.

**- Partition coefficient: n-octanol/water:** Not determined.

(Contd. on page 6)

# Safety data sheet

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

Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

**Trade name: ergo 1664 - Component B ergo 1665, ergo 1670. ergo 1675, ergo 1680**

(Contd. of page 5)

**- 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:**

SADT (Self-Accelerating Decomposition Temperature): is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport.

A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the given temperature. Contact with incompatible substances can cause decomposition at or below the SADT.

Protect from heat and direct sunlight.

**- 10.3 Possibility of hazardous reactions** Reacts with heavy metals.**- 10.4 Conditions to avoid** No further relevant information available.**- 10.5 Incompatible materials:** Metal-salts, amines**- 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:****1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Oral | LD50 | 15,000 mg/kg (Rat, male/female)

Dermal | LD50 | 23,000 mg/kg (Rabbit)

**- Primary irritant effect:****- Skin corrosion/irritation** Based on available data, the classification criteria are not met.**- Serious eye damage/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.

(Contd. on page 7)

CH-EN



# Safety data sheet

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

Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

**Trade name: ergo 1664 - Component B ergo 1665, ergo 1670. ergo 1675, ergo 1680**

(Contd. of page 6)

**- Toxicity to fish:**

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

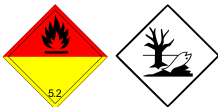
LC50/96 h | 2 mg/l (Fish)

- **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:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
 Also very poisonous for fish and plankton in water bodies.  
 Very toxic for aquatic organisms  
 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.
- **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

- |  |   |
|--|---|
| <b>- 14.1 UN-Number</b>                  |   |
| <b>- ADR, IMDG, IATA</b>                 | UN3108  |
| <b>- 14.2 UN proper shipping name</b>    |   |
| <b>- ADR</b>                             | 3108 ORGANIC PEROXIDE TYPE E, SOLID, ENVIRONMENTALLY HAZARDOUS                      |
| <b>- IMDG</b>                            | ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), MARINE POLLUTANT               |
| <b>- IATA</b>                            | ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)                                 |
| <b>- 14.3 Transport hazard class(es)</b> |   |
| <b>- ADR</b>                             |   |
|  |  |
| <b>- Class</b>                           | 5.2 (P1) Organic peroxides.   |
| <b>- Label</b>                           | 5.2   |

(Contd. on page 8)

-CH-EN-

# Safety data sheet

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

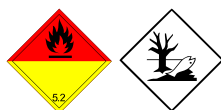
Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

**Trade name: ergo 1664 - Component B ergo 1665, ergo 1670. ergo 1675, ergo 1680**

(Contd. of page 7)

**- IMDG**

- Class 5.2 Organic peroxides.  
- Label 5.2

**- IATA**

- Class 5.2 Organic peroxides.  
- Label 5.2

- 14.4 Packing group  
- ADR, IMDG, IATA

Void

**- 14.5 Environmental hazards:**

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

**- 14.6 Special precautions for user**

- Warning: Organic peroxides.  
- Hazard identification number (Kemler code): -  
- EMS Number: F-J,S-R  
- Segregation groups Peroxides  
- Stowage Category D  
- Stowage Code SW1 Protected from sources of heat.  
- Segregation Code SG35 Stow "separated from" SGG1-acids  
SG36 Stow "separated from" SGG18-alkalis.

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

Not applicable.

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

- Limited quantities (LQ) 500 g  
- Excepted quantities (EQ) Code: E0  
Not permitted as Excepted Quantity  
- Transport category 2  
- Tunnel restriction code D

**- IMDG**

- Limited quantities (LQ) 500 g  
- Excepted quantities (EQ) Code: E0  
Not permitted as Excepted Quantity

**- UN "Model Regulation":**

UN 3108 ORGANIC PEROXIDE TYPE E, SOLID, 5.2, ENVIRONMENTALLY HAZARDOUS

**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.

(Contd. on page 9)

CH-EN

# Safety data sheet

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

Printing date 03.02.2022

Version number 8

Revision: 03.02.2022

**Trade name: ergo 1664 - Component B ergo 1665, ergo 1670. ergo 1675, ergo 1680**

(Contd. of page 8)

**- 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

- H241 Heating may cause a fire or explosion.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

#### - Abbreviations and acronyms:

- ADR: Accord relatif au transport international 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
- Org. Perox. B: Organic peroxides – Type B
- Org. Perox. E: Organic peroxides – Type E/F
- 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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

CH-EN