

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

Printing date 25.06.2021

Version number 6

Revision: 25.06.2021

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

- 1.1 Product identifier

- Trade name: **ergo 1663 - Component A ergo 1665**

- 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

- Only representative (REACH) and importer (CLP):

Kisling Deutschland GmbH

Salzstraße 15

D-74676 Niedernhall

Tel +49 8171 99982 30

- Further information obtainable from: Product safety department

- Department issuing MSDS: ergo@kisling.com

- 1.4 Emergency telephone number: +49-700-24 112 112 (KAR)

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

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

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

- Hazard statements

H228 Flammable solid.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

- 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.

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

GHS02 GHS05 GHS07

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

methyl methacrylate
 methacrylic acid
 Propylidynetrimethanol, ethoxylated, esters with acrylic acid
 N,N-Bis-(2-hydroxyethyl)-para-toluidine, ethoxylated

- 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.
- 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	> 30 - ≤ 50%
CAS: 20882-04-6 EINECS: 244-096-4	{2-[(2-methyl-1-oxoallyl)oxy]ethyl} hydrogen succinate Skin Irrit. 2, H315; Eye Irrit. 2, H319	> 5 - < 10%
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; STOT SE 3, H335; Flam. Liq. 4, H227	≥ 3 - < 5%

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CAS: 28961-43-5 NLP: 500-066-5 Reg.nr.: 01-2119489900-30-xxxx	Propylidynetrimehanol, ethoxylated, esters with acrylic acid ----- Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 0.1 - < 1%
CAS: 103671-44-9 Reg.nr.: 01-2119979579-10-xxxx	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: 102-82-9 EINECS: 203-058-7	tributylamine ----- Acute Tox. 3, H311; Acute Tox. 1, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315	≤ 1%
CAS: 99-97-8 EINECS: 202-805-4 Index number: 612-056-00-9	N,N-dimethyl-p-toluidine ----- Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Carc. 2, H351; STOT RE 2, H373; Flam. Liq. 4, H227; Aquatic Chronic 3, H412	≥ 0.1 - ≤ 1%
CAS: 26741-53-7	3,9-Bis(2,4-di-tert.-butyl phenoxy)-2,4,8,10.tetroxa-3,9-diphosphaspiro[5.5]undecane ----- Aquatic Chronic 1, H410	≥ 0.025 - < 0.25%
CAS: 106-51-4 EINECS: 203-405-2 Index number: 606-013-00-3	p-benzoquinone ----- Acute Tox. 3, H301; Acute Tox. 3, H331; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 0.025%

- **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 and show this container or label.

- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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.

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- **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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
- **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.

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- Ingredients with limit values that require monitoring at the workplace:	
80-62-6 methyl methacrylate	
IOELV (European Union)	Short-term value: 100 ppm Long-term value: 50 ppm
AGW (Germany)	Long-term value: 210 mg/m ³ , 50 ppm 2(I);DFG, EU, Y
79-41-4 methacrylic acid	
AGW (Germany)	Long-term value: 180 mg/m ³ , 50 ppm 2 (I);DFG, Y
102-82-9 tributylamine	
MAK (Germany)	als Dampf und Aerosol;vgl.Abschn.IIb

- **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.

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

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: Beige

- **Odour:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

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- Change in condition**Melting point/freezing point:** Undetermined.**Initial boiling point and boiling range:** Undetermined.**- Flash point:** 27 °C (DIN EN ISO 3679)**- 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:** 0.99 g/cm³**- 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.**- 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)

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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)
103671-44-9 N,N-Bis-(2-hydroxyethyl)-para-toluidine, ethoxylated		
Oral	LD50	619 mg/kg
Dermal	LD50	> 2,000 mg/kg
102-82-9 tributylamine		
Inhalative	LC50/4 h	0.5 mg/l (Rat, male/female)
99-97-8 N,N-dimethyl-p-toluidine		
Inhalative	LC50/4 h	1.4 mg/l (Rat, male/female)
106-51-4 p-benzoquinone		
Oral	LD50	130 mg/kg (Rat, male/female)

- **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.

- Toxicity to fish:

106-51-4 p-benzoquinone	
LC50/96 h	0.472 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.
- **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.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> - 14.1 UN-Number - ADR, IMDG, IATA 	UN3175
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR - IMDG, IATA 	3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE, MONOMER, STABILIZED) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE, MONOMER, STABILIZED)
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR 	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> - Class - Label 	4.1 (F1) Flammable solids, self-reactive substances and solid desensitised explosives. 4.1
<ul style="list-style-type: none"> - IMDG, IATA 	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> - Class - Label 	4.1 Flammable solids, self-reactive substances and solid desensitised explosives. 4.1
<ul style="list-style-type: none"> - 14.4 Packing group - ADR, IMDG, IATA 	II
<ul style="list-style-type: none"> - 14.5 Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> - 14.6 Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Stowage Category 	Warning: Flammable solids, self-reactive substances and solid desensitised explosives. 40 F-A,S-I B
<ul style="list-style-type: none"> - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.

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- 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

- 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
- Chemical safety assessment
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- 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.

H227 Combustible liquid.

H301 Toxic if swallowed.

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.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

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H410 Very 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)

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. Liq. 4: Flammable liquids – Category 4

Flam. Sol. 1: Flammable solids – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 1: Acute toxicity – Category 1

Acute Tox. 2: Acute toxicity – Category 2

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

Carc. 2: Carcinogenicity – Category 2

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 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- * Data compared to the previous version altered.