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

Printing date 05.11.2020 Version number 2 Revision: 05.11.2020

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

- 1.1 Product identifier

- Trade name: ergo 2453

- 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: ergo@kisling.com

- 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

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.

Aquatic Chronic 3 H412 Harmful 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

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

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

ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

- Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

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H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

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

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.

P310 Immediately call a POISON CENTER/doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- 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

ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

- Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing mist/vapours/spray. 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- 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	methacrylic acid, monoester with propane-1,2-diol	> 30 - ≤ 50%
EINECS: 248-666-3	Eye Irrit. 2, H319; Skin Sens. 1, H317	
Index number: 607-125-00-5		
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CAS: 79-10-7	acrylic acid	(Contd. of page 2) $\geq 3 - \langle 5\% \rangle$
EINECS: 201-177-9	Flam. Liq. 3, H226; Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	23-<3%
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; Flam. Liq. 4, H227	> 1 - < 2.5%
CAS: 114-83-0 EINECS: 204-055-3	2'-phenylacetohydrazide Acute Tox. 3, H301	≤ 1%
CAS: 84434-11-7 EINECS: 282-810-6	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate Aquatic Chronic 2, H411; Skin Sens. 1B, H317	≥ 0.25 - < 1%
CAS: 162881-26-7 ELINCS: 423-340-5 Index number: 015-189-00-5	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Skin Sens. 1, H317; Aquatic Chronic 4, H413	≥ 0.1 - < 1%
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4	1,4-dihydroxybenzene Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317	< 0.025%
	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.

- 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.

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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

- 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.

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/m³, 20* ppm	
	Long-term value: 29 mg/m³, 10 ppm	
	*reference period of 1 minute	
AGW (Germany)	Long-term value: 30 mg/m³, 10 ppm	
•	1(I);DFG, Y	
80-15-9 α,α -dimethylben	zyl hydroperoxide	
MAK (Germany)	als Dampf und Aerosol;vgl.Abschn.Xa	
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122 21 0 1	1.4.121	(Contd. of page
	1,4-dihydroxybenz	
MAK (Ger	rmany) als	s Dampf und Aerosol
DNELs		
27813-02-	•	, monoester with propane-1,2-diol
Dermal		4.2 mg/kg bw/day (General population)
	1,4-dihydroxybenz	
Dermal	Longterm System	64 mg/kg bw/day (General population)
		128 mg/kg bw/day (Worker)
Inhalative	Longterm Local	0.5 mg/m³ (General population)
		1 mg/m³ (Worker)
	Longterm System	1.74 mg/m³ (General population)
		7 mg/m³ (Worker)
PNECs		
27813-02-	1 methacrylic acid	, monoester with propane-1,2-diol
Oral PNE	C oral	mg/kg Food (General population)
		Kein Bioaccumulationspotenzial
PNE	C Freshwater	0.904 mg/l (General population)
PNE	C Freshwater sed	6.28 mg/kg (General population)
PNE	C Marinewater	0.904 mg/l (General population)
PNE	C Soil	0.727 mg/kg (General population)
PNE	C STP	10 mg/l (General population)
PNE	C Marinewater sed	6.28 mg/kg (General population)
123-31-9	1,4-dihydroxybenz	ene
PNE	C Freshwater	0.114 mg/l
PNE	C Freshwater sed	0.00098 mg/kg
PNE	C Marinewater	0.0114 mg/l
PNE	C Soil	0.000129 mg/kg
PNE	C STP	0.71 mg/l
PNE	C Marinewater sed	0.000097 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 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): Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890 Butyl II, Nr. 0897 Butyl, Nr. 0898

.

Permeation time / penetration time: = 240 minutes (DIN EN 374):

Naturlatex I , Nr. 0395 oder 0403 Chloropren Nitril II, Nr. 0717

Chloropren, Nr. 0720, 0722, 0723, 0725 oder 0726

Nitril VI, Nr. 0754

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

The exact break trough 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 cl	- 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.				
- Change in condition					
Melting point/freezing point:	Undetermined.				
Initial boiling point and boiling range:	Undetermined.				
- Flash point:	> 100 °C				
- Flammability (solid, gas):	Not applicable.				
- 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.				
- Oxidising properties	Not determined.				
- Vapour pressure:	Not determined.				
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- Density at 20 °C:	1.1 g/cm ³	
- 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:	450 - 650 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.

	Active toxicity Bused on available data, the classification effects are not firet.					
	- LD/LC50 values relevant for classification:					
Ī	80-15-9 α,α -dimethylbenzyl hydroperoxide					
Oral LD50 382 mg/kg (Rat, male/female)						
Dermal LD50 500 mg/kg (Rat, male/female)						
	Inhalative LC50/4 h 1.37 mg/l (Rat, male/female)					
Ī	114-83-0 2'-phenylacetohydrazide					
Oral LD50 270 mg/kg (Rat, male/female)						
Ī	123-31-9 1,4-dihydroxybenzene					
Oral LD50 375 mg/kg (Rat, male/female) (OECD 401)						
Dermal LD50 > 2,000 mg/kg (Rabbit) (OECD 402)						

- 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 (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.

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- 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:

123-31-9 1,4-dihydroxybenzene

LC50/96 h 0.638 mg/l (Oncorhynchus mykiss)

- 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.

	- European waste catalogue				
		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					

- Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

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- 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	

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

SECTION 15: Regulatory information

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

- 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

H226 Flammable liquid and vapour.

H227 Combustible liquid.

H242 Heating may cause a fire.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

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.

H413 May cause long lasting harmful effects to aquatic life.

- 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)

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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 Flam. Liq. 4: Flammable liquids – Category 4 Org. Perox. E: Organic peroxides – Type E/F Acute Tox. 4: Acute toxicity - oral – Category 4 Acute Tox. 3: Acute toxicity - inhalation – 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 1

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B Muta. 2: Germ cell mutagenicity – Category 2 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 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 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

- * Data compared to the previous version altered.

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