

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.10.2021

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health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

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E-T	
Corro	sion
Eye Dam. 1 H.	318 Causes serious eye damage.
<!-- -->	
\checkmark	
	315 Causes skin irritation.
Skin Sens. 1 H.	317 May cause an allergic skin reaction.
STOT SE 3 H.	336 May cause drowsiness or dizziness.
2.2 Label eleme	ents
	ding to Regulation (EC) No 1272/2008
	classified and labelled according to the CLP regulation.
Hazard pictogr	ams
	$\land \land \land$
\mathbf{Y}	
GHS02 GHS	505 GHS07 GHS08
011502 011	
Signal word Da	inger
Hazard-determ	ining components of labelling:
Proprietary Epo	
gamma-Butyrol	
1-Methoxy-2-pr	
Hazard stateme	
H226 Flammab	le liquid and vapour.
H315 Causes sk	in irritation.
H318 Causes se	prious eye damage.
	e an allergic skin reaction.
	e drowsiness or dizziness.
•	e damage to organs through prolonged or repeated exposure.
Precautionary s	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
P261	smoking. Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use alcohol resistant foam to extinguish.
P370+P378	In case of fire: Use fire-extinguishing powder to extinguish.
P370+P378	In case of fire: Use carbon dioxide to extinguish.
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P403+P233	
P501	

Store in a well-ventilated place. Keep container tightly closed. 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 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous compone	ents:	
CAS: 120-92-3	Cyclopentanone	40-60%
EINECS: 204-435-9	🔗 Flam. Liq. 3, H226; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 108-65-6	1-Methoxy-2-propanol acetate	25-50%
EINECS: 203-603-9	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
	Proprietary Epoxy Resin	10-25%
	STOT RE 2, H373; 🔷 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 4, H413	
CAS: 96-48-0	gamma-Butyrolactone	5-15%
<i>EINECS: 202-509-5</i>	🔗 Eye Dam. 1, H318; 🐠 Acute Tox. 4, H302; STOT SE 3, H336	
	Proprietary Photoacid Initiator	<1%
	Aquatic Chronic 2, H411; 🚸 Acute Tox. 4, H302; Acute Tox. 4, H332	
· Additional informat	ion: 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.

· After swallowing: If symptoms persist consult doctor.

• 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 Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

• Suitable extinguishing agents: Alcohol resistant foam

Fire-extinguishing powder

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Carbon dioxide

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Containers may explode due to pressure increase when container is exposed to extreme heat. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail.

• 5.3 Advice for firefighters

• **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources. · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents · 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 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Ensure good ventilation/exhaust at the workplace. Prevent formation of aerosols. Keep receptacles tightly sealed. · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Use explosion-proof apparatus / fittings and spark-proof tools. · 7.2 Conditions for safe storage, including any incompatibilities · Storage:

- Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Do not store together with oxidising and acidic materials. Do not store together with alkalis (caustic solutions). • Further information about storage conditions:
- Store in cool, dry conditions in well sealed containers. Store receptacle in a well ventilated area.
- · 7.3 Specific end use(s) No further relevant information available.

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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: 108-65-6 1-Methoxy-2-propanol acetate WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from food and beverages. 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: In case of low exposure use cartridge respirator. In case of intensive or longer exposure use self-contained respiratory protective device. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. · Material of gloves Nitrile rubber, NBR · 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: Colour:

· Odour: · Odour threshold: Liquid Light yellow Clear, colorless to pale yellow Sweetish Not determined.

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pH-value:	Not determined.
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. e: 130 °C
Flash point:	30 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	315 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
Explosion limits: Lower: Upper:	1.3 Vol % 10.8 Vol %
• Vapour pressure at 20 •C:	11 hPa
· Density: · Relative density · Vapour density · Evaporation rate	Not determined. Not determined. Not determined. Not determined.
Solubility in / Miscibility with water:	Partly miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents:	37.5 %
Solids content:	19.9 %
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 according to specifications.
- 10.3 Possibility of hazardous reactions Exothermic polymerisation.
- · 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. Contact with incompatible materials.

- 10.5 Incompatible materials: Strong Oxidizing Agents, Strong Bases, Strong Acids, Amines
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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Advanced materials

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Danger of forming toxic pyrolysis products. Corrosive gases/vapours

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

	alues relevant for classificat	ion:
	v Epoxy Resin	
Oral	NOEL 28 day repeated dose	250 mg/kg/day (Rat)
120-92-3 C	<i>yclopentanone</i>	
Oral	LD50	1820 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	19.5 mg/l (Rat)
96-48-0 ga	mma-Butyrolactone	
Oral	LD50	1540 mg/kg (Rat)
Dermal	LD50	5000 mg/kg (gui)
Inhalative	LC50/4 h	>5.1 mg/l (Rat)
108-65-61	-Methoxy-2-propanol acetate	2
Oral	LD50	8532 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rat)
Inhalative	LC50/6 h	4345 ppm (Rat)
Causes skin Serious eye Causes seri Respiratory May cause Additional CMR effect Germ cell n Carcinoger Reproducti STOT-sing May cause	sion/irritation n irritation. e damage/irritation ious eye damage. y or skin sensitisation an allergic skin reaction. toxicological information: ts (carcinogenity, mutagenic nutagenicity Based on availab ve toxicity Based on available	ity and toxicity for reproduction) Ible data, the classification criteria are not met. a, the classification criteria are not met. le data, the classification criteria are not met.

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

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Aquatic toxicity:		
Proprietary E	Epoxy Resin	
LC50/96 h	>0.31 mg/l (algae)	
	>0.31 mg/l (Water flea)	
NOEC/96 h	$\geq 0.99 \text{ mg/l} (algae)$	
120-92-3 Сус	lopentanone	
EC50/48 h	3600 mg/l (Ceriodaphnia dubia (water flea))	
	100 mg/l (daphnia magna)	
EC50/72 h	>100 mg/l (scenedesmus subspicatus)	
LC50/48 hr	2950 mg/L (golden orfe)	
LC50/96 h	>100 mg/l (fish)	
108-65-6 1-M	lethoxy-2-propanol acetate	
ErC50 96 hor	ur >1000 mg/l (Pseudokirchneriella subcapitata (algea))	
LC50	408-500 mg/l (daphnia magna)	
	100-180 mg/l (rainbow trout (Oncorhynchus mykiss))	
96-48-0 gami	na-Butyrolactone	
EC50/17 h	>10000 mg/l (bacterium)	
EC50/48 h	>500 mg/l (daphnia magna)	
EC50/72 h	360 mg/l (green algae)	
LC50/96 h	>220 - <460 mg/l (golden orfe)	
12.3 Bioaccu. 12.4 Mobility Additional ec General note: Water hazard Do not allow 12.5 Results of PBT: Not app vPvB: Not app	class 1 (German Regulation) (Self-assessment): slightly hazardous for water undiluted product or large quantities of it to reach ground water, water course or sewage systen of PBT and vPvB assessment plicable.	

· 13.1 Waste treatment methods

- *Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

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SECTION 14: Transport information · 14.1 UN-Number UN1866 · ADR, IMDG, IATA · 14.2 UN proper shipping name · ADR, IMDG, IATA RESIN SOLUTION · 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class 3 Flammable liquids. · Label 3 · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Flammable liquids. · Hazard identification number (Kemler code): 30 · EMS Number: *F*-*E*,*S*-*E* · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. • Transport/Additional information: · ADR · Limited quantities (LQ) 5L3 · Transport category • Tunnel restriction code D/E· UN ''Model Regulation'': UN1866, RESIN SOLUTION, 3, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Labelling according to Regulation (EC) No 1272/2008 GHS label elements

· Directive 2012/18/EU

Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

• 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.

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ADVANCED MATERIALS

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(Contd. of page 9) · Relevant phrases H226 Flammable liquid and vapour. H302 Harmful if swallowed. 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. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. · Department issuing SDS: Product safety department · Contact: Tom Cole, EHS Manager (tcole@kayakuAM.com) · 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. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 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 Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4