Safety data sheet

according to 1907/2006/EC, Article 31

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• 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.

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STOT SE 3 H	(Contd. of page 1) 336 May cause drowsiness or dizziness.
2.2 Label eleme	
	ding to Regulation (EC) No 1272/2008 lassified and labelled according to the GB CLP regulation.
Hazard pictogra	
nazara piciogra	uns
< 🖏) < !	
GHS02 GHS	507
Signal word Wa	urning
	ning components of labelling:
1-Methoxy-2-pr	
4-Formylmorph	
Hazard stateme	
	le liquid and vapour.
H315 Causes sk	
	rious eye irritation.
	e an allergic skin reaction.
	e drowsiness or dizziness.
Precautionary s	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	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, ij
	present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
<i>P337+P313</i>	<i>If eye irritation persists: Get medical advice/attention.</i>
P370+P378	In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carbon
	dioxide.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
2.3 Other hazar	
	redients are included in the list established in accordance with Article 59(1) for having endocrine
disrupting prop	
	redients are substances identified as having endocrine disrupting properties in accordance with
	out in Commission Delegated Regulation (EU) 2017/2100 (or Commission Regulation (EU)
2018/605.	
	and vPvB assessment
PBT: Not applie	
vPvB: Not appli	cable.



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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

· Dangerous compone	ents:	
CAS: 108-65-6	1-Methoxy-2-propanol acetate	40-60%
EINECS: 203-603-9	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
CAS: 4394-85-8		
EINECS: 224-518-3	🚯 Skin Sens. 1B, H317	
	Proprietary Bismaleimide Monomer	5-15%
	W Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315	
CAS: 2564-83-2	2,2,6,6-Tetramethylpiperidinooxy	1-5%
	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	
	Proprietary Initiator	1-5%
· Additional Compone	ents:	
Proprietary Polymer		25-50%
Additional information	ion. For the wording of the listed hazard phrases refer to section 16	1

• 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

• 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

Carbon dioxide

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

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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. Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 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.

• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Use explosion-proof apparatus / fittings and spark-proof tools. Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and containers: No special requirements.

- 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: Protect from heat and direct sunlight.

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.

SECTION 8: Exposure controls/personal protection

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· 8.1 Control parameters
```

• Additional information about design of technical facilities: No further data; see section 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.

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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

· Body protection: Long-sleeved work clothes

9.1 Information on basic physical an General Information Appearance:	ıd chemical properties	
Form:	Liquid	
Colour:	Dark red	
Odour:	Mild	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/freezing point: Initial boiling point and boiling ra	Undetermined. nge: 146.4 °C	
Flash point:	46 °C	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	



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Explosive properties:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.		
Explosion limits:			
Lower:	1.5 Vol %		
Upper:	10.8 Vol %		
Vapour pressure at 20 •C:	5 hPa		
Density:	Not determined		
Relative density	See Other information		
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:	Not determined.		
Kinematic:	Not determined.		
9.2 Other information	Name Number Sp. Grav. VOC(%by wt.) VOC(g/L)		
·	KMSF 2005 B345033 1.005 57 575		
	KMSF 2010 B345037 1.007 54 540		

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability Stable
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid
- Contact with incompatible materials.
- Heat, flames and sparks. Extremes of temperature and direct sunlight.
- · 10.5 Incompatible materials: Strong Oxidizing Agents, Strong Acids, Strong Bases
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide Hydrocarbons Nitrogen oxides (NOx) Silicon oxide

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- \cdot Serious eye damage/irritation
- Causes serious eye irritation.

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· Respiratory or skin sensitisation

- May cause an allergic skin reaction.
- · Additional toxicological information:
- · CMR effects (carcinogenity, 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 drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · 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
- 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.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA

UN1866

· 14.2 UN proper shipping name · ADR, IMDG, IATA

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· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	111
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Flammable liquids.
• Hazard identification number (Kemler code):	30
• EMS Number: • Stowage Category	F-E, <u>S-E</u> A
0 0.	
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	of Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml
• Transport category • Tunnel restriction code	Maximum net quantity per outer packaging: 1000 ml 3 D/E
·IMDG	
· Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3, III

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

 \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

 \cdot 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.

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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. H290 May be corrosive to metals. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eve damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. · 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3