

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.06.2022

#### Version number 7

Revision: 24.06.2022



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

flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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$\mathbf{V}$	
STOT SE 3 H	336 May cause drowsiness or dizziness.
2.2 Label eleme	
	ding to Regulation (EC) No 1272/2008
• Hazard pictogra	lassified and labelled according to the GB CLP regulation.
	uns -
	$\land \land$
<b>&lt; {}</b>	
GHS02 GHS	505 GHS07
Signal word Da	nger
Unand determine	ning components of labelling:
1,3-dioxolane	ning components of tabetang:
1-methoxy-2-pro	angual
Hazard stateme	
-	ms mmable liquid and vapour.
	rious eye damage.
	e drowsiness or dizziness.
Precautionary s	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	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 positi
	comfortable for breathing.
P305+P351+P.	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses
	present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
<i>P337+P313</i>	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carb
D (02 - D005	dioxide.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/internation
2 2 0 4 · · · ·	regulations.
2.3 Other hazar	
• <b>Results of PBT</b> • <b>PBT:</b> Not applie	and vPvB assessment
vPvB: Not appli	cubie.

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## SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Solvent mixture

· Dangerous compone	ents:		
CAS: 646-06-0 EINECS: 211-463-5		� Flam. Liq. 2, H225; � Eye Dam. 1, H318	50-80%
CAS: 107-98-2 EINECS: 203-539-1	1-methoxy-2-propanol	� Flam. Liq. 3, H226; � STOT SE 3, H336	5-30%
· Additional informat	ion: For the wording of the lister	d 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. If skin irritation continues, consult a doctor.* 

• 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
- $\cdot$  Suitable extinguishing agents:

Alcohol resistant foam

Fire-extinguishing powder

ABC powder

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- $\cdot$  5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released:

Formaldehyde

Can form explosive gas-air mixtures.

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.

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### **SECTION 6:** Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Keep away from ignition sources. Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: Dilute with plenty of water. 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.

### 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 Keep away from heat and direct sunlight. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Prevent formation of aerosols.
• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

Protect from heat.

*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:

Store in inert atmosphere or keep well sealed to prevent the formation of peroxides and other oxidation products. Store in a cool location.

- Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions). Do not store together with oxidising and acidic materials.
- Further information about storage conditions:
- Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

· 7.3 Specific end use(s) Positive radiation resist edge bead remover

## 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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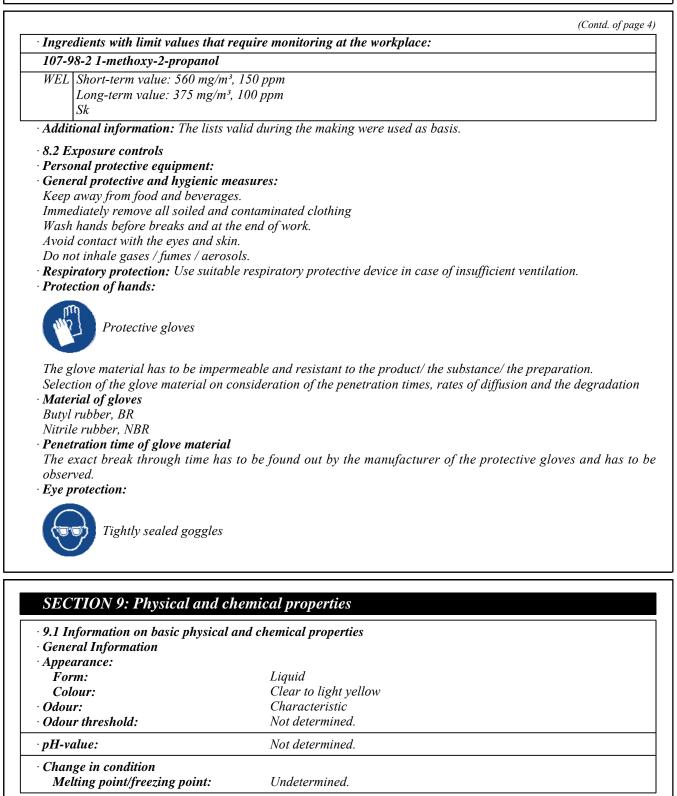
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Initial boiling point and boiling range	<i>::</i> 75 ℃
Flash point:	<7.5 °C (クローズドカップ)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	270 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	2.1 Vol %
Upper:	20.5 Vol %
	Not determined.
Vapour pressure at 20 °C:	133 hPa
Density at 20 °C:	1.0355 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
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.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Polymerisation.

Possible formation of peroxide.

- 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:

Formaldehyde

Carbon monoxide and carbon dioxide

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<sup>· 10.2</sup> Chemical stability

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### 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:

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646-06-0 1	,3-dioxola	ne
Oral	LD50	3000 mg/kg (Rat)
Dermal	LD50	8480 mg/kg (rabbit)
Inhalative	LC50	68.4 mg/L (Rat)
107-98-21	-methoxy-	2-propanol
Oral	LD50	5660 mg/kg (Rat)
Dermal	ID50	13000 mg/kg (rabbit)

DermalLD5013000 mg/kg (rabbit)InhalativeLC50/4 h54.6 mg/l (Rat)

### · Primary irritant effect:

· Skin corrosion/irritation Not a known skin irritant

· Serious eye damage/irritation

- Causes serious eye damage.
- · Respiratory or skin sensitisation No information
- Experience with humans: No further relevant information available.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity No information
- · Carcinogenicity No information
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause drowsiness or dizziness.
- · STOT-repeated exposure No information
- · Aspiration hazard No information

# **SECTION 12: Ecological information**

#### · 12.1 Toxicity

Oral	l 14 day NOEC >1000 mg/l (algae)		
	EC50	7650 mg/kg (daphnia magna)	
	LC50 48 hr	12000 mg/L (Sheepshead minnow)	
107-2	98-2 1-methoxy	-2-propanol	
EC50 96 hr 23300 (daphnia magna)			
		>1000 (green algae)	
	LC50/96 h	20800 mg/l (Pimephales promelas)	
12.2	Persistence and	d degradability The single components are biodegradable	

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· 12.4 Mobility in soil

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Component: Propylene glycol monomethyl ether, rapid dissipation in soil expected. Koc value between 1 and 50 indicating very high soil mobility.

• Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or 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

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.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number		
ADR, IMDG, IATA	UN1166	
14.2 UN proper shipping name		
ADR	1166 DIOXOLANE	
IMDG, IATA	DIOXOLANE	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
Class	3 Flammable liquids.	
Label	3	
14.4 Packing group		
ADR, IMDG, IATA	II	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Warning: Flammable liquids.	
Hazard identification number (Kemler code):	33	



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· 14.7 Transport in bulk according to A Marpol and the IBC Code	Annex II of Not applicable.	
· Transport/Additional information:		
· <i>ADR</i>		
· Limited quantities (LQ)	1L	
· Transport category	2	
• Tunnel restriction code	D/E	
· UN "Model Regulation":	UN1166, DIOXOLANE, 3, II	

# **SECTION 15: Regulatory information**

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

- · 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.

#### · Relevant phrases

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. 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)

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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. 3: Flammable liquids – Category 3 Eye Dam. 1: Serious eye damage/eye irritation – Category 1