

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.02.2023

Chemtrec USA Emergency: 800-424-9300 (24 hr)

Chemtrec International Emergency: 703-527-3887 (24 hr)

Version number 4 (replaces version 3)

Revision: 14.02.2023

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier • Trade name: SU-8 Developer · Article number: Y020100 · CAS Number: 108-65-6 · EC number: 203-603-9 · Index number: 607-195-00-7 · Registration number 2-methoxy-1-methylethyl acetate (CAS 108-65-6): 01-2119475791-29-0050 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Sector of Use SU16 Manufacture of computer, electronic and optical products, electrical equipment • Product category PC30 Photo-chemicals · Application of the substance / the mixture Photoresist remover · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Kavaku Advanced Materials, Inc. 200 Flanders Road Westborough, MA 01581 Tel: (617) 965-5511 Fax: (617) 965-5818 The person responsible in EU Member State: ONLY REPRESENTATIVE Lionel Marcélis, PhD President REACH NATION SRL 22 Rue Notre Dame au Bois 1440 Braine-le-Château **BELGIUM** Tel: +32491880259 \*Only Representative for 2-methoxy-1-methylethyl acetate (CAS 108-65-6) only. Other substances are being supported under REACH by Only Representatives of Non-European suppliers and others may be exempt from registration. • Further information obtainable from: Product Safety Email: productsafety@kayakuAM.com · 1.4 Emergency telephone number: Kayaku Advanced Materials: 617-965-5511

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Printing date 14.02.2023

Repr. 1B

GHS07

GHS07

· 2.2 Label elements

· Hazard pictograms

· Signal word Danger

· Hazard statements

GHS02

P210

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(Contd. of page 1) **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Liq. 3 H226 Flammable liquid and vapour. GHS08 health hazard H360D May damage the unborn child. STOT SE 3 H336 May cause drowsiness or dizziness. · Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. GHS08 · Hazard-determining components of labelling: 1-Methoxy-2-propanol acetate 2-Methoxy-1-propyl acetate H226 Flammable liquid and vapour. H360D May damage the unborn child. H336 May cause drowsiness or dizziness. · Precautionary statements 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/hearing protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position *P304+P341* 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.

- *P333+P313* If skin irritation or rash occurs: Get medical advice/attention.
- *P337+P313* If eye irritation persists: Get medical advice/attention.

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EU



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<ul> <li>P370+P378 In case of fire: Use alcohol resistant foam to extinguish.</li> <li>P370+P378 In case of fire: Use fire-extinguishing powder to extinguish.</li> <li>P370+P378 In case of fire: Use carbon dioxide to extinguish.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Additional information: Restricted to professional users.</li> <li>2.3 Other hazards None of the ingredients are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties.</li> <li>None of the ingredients are substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (or Commission Regulation (EU) 2018/605.</li> <li>Results of PBT and vPvB assessment PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>vECTION 3: Composition/information on ingredients</li> <li>3.1 Substances</li> <li>CAS No. Description 108-65-6 1-Methoxy-2-propanol acetate Identification number(s) EC number: 203-603-9 Index number: 607-195-00-7</li> </ul>		(Contd. of page 2)
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· Identification number(s) · EC number: 203-603-9		
• EC number: 203-603-9		
· Index number: 607-195-00-7		
	· Index number:	607-195-00-7

• Dangerous components:		
CAS: 70657-70-4 EINECS: 274-724-2 Index number: 607-251-00-0	2-Methoxy-1-propyl acetate	<0.5%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-0050	1-Methoxy-2-propanol acetate Flam. Liq. 3, H226;  STOT SE 3, H336	>99.5%

## **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.

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• 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

ABC powder

· 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.

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

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions:

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. 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). Dispose contaminated material as waste according to item 13. 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. Open and handle receptacle with care. Prevent formation of aerosols.

• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

· 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 alkalis (caustic solutions). Do not store together with oxidising and acidic materials.

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• Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

• 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

108-65-6 1-Methoxy-2-propanol acetate

IOELV Short-term value: 550 mg/m<sup>3</sup>, 100 ppm Long-term value: 275 mg/m<sup>3</sup>, 50 ppm Skin

· Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

• Appropriate engineering controls No further data; see item 7.

- · Individual protection measures, such as 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. Store protective clothing separately. 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.

• Hand protection



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/face protection



Tightly sealed goggles

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9.1 Information on basic physical and chemical prope	rties
General Information	
Physical state	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	<-67 °C
Boiling point or initial boiling point and boiling range	146 °C
Flammability	Not applicable.
Lower and upper explosion limit	11
Lower:	1.5 Vol %
Upper:	10.8 Vol %
Flash point:	<i>44 °C (クローズドカップ</i> )
Ignition temperature:	315 °C
Decomposition temperature:	Not determined.
pH at 20 °C	4
Viscosity:	,
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water at 20 °C:	220 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	3.7 hPa
Density and/or relative density	5.7 m a
Density at 20 °C:	0.9668 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
9.2 Other information Appearance:	
Appearance. Form:	Liquid
I orm. Important information on protection of health and	
environment, and on safety.	
environment, and on sajety. Auto-ignition temperature:	Not determined.
Auto-ignition temperature: Explosive properties:	
Explosive properties:	Product is not explosive. However, formation explosive air/vapour mixtures are possible.
Organia solvanto:	99.5 %
Organic solvents: Solids content:	99.5 % 0.5 %
Solids content: Change in condition	U.J /0
Change in condition Evaporation rate	Not determined
	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	
Flammable liquid and vapour.	
Flammable solids	Void
Self-reactive substances and mixtures	Void



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· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
• Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flammal	ole gases	
in contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
• Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

## 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

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

· 10.5 Incompatible materials: Strong Oxidizing Agents, Strong Acids, Strong Bases

• 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

# SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values relevant for classification:

108-65-6 1-Methoxy-2-propanol acetate				
Oral	LD50	8532 mg/kg (Rat)		
Dermal	LD50	>5000 mg/kg (Rat)		

Inhalative LC50/6 h 4345 ppm (Rat)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

- · 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

May damage the unborn child.

· STOT-single exposure

May cause drowsiness or dizziness.

 $\cdot$  **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.

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· 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

#### • Aquatic toxicity:

108-65-6 1-Methoxy-2-propanol acetate

LC50 408-500 mg/l (daphnia magna)

100-180 mg/l (rainbow trout (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.

· 12.5 Results of PBT and vPvB assessment

• *PBT:* Not applicable.

· vPvB: Not applicable.

• 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
- · Additional ecological information:

· General notes:

*Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.* 

# SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

· Recommendation

Disposal must be made in accordance with International, National, and regional regulations. 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 or ID number · ADR, IMDG, IATA

UN3272

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

ESTERS, N.O.S. (1-Methoxy-2-propanol acetate)

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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	III
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-D
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	D/E
UN ''Model Regulation'':	UN 3272 ESTERS, N.O.S. (1-METHOXY-2-PROPANO) ACETATE), 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 Substance is not listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · 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
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30
- 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.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

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Revision: 14.02.2023

Trade name: SU-8 Developer

(Contd. of page 9) H360D May damage the unborn child. · Classification according to Regulation (EC) No 1272/2008 Art. 9(1) of Regulation (EC) No. 1272/2008 was used for classification purposes. · Department issuing SDS: Product safety department · Contact: Tom Cole, EHS Manager (tcole@kayakuAM.com) · Revision History: The manufacturer's information in Section 1, the product hazard information in Section 2 and the component hazard information in Section 3 have been updated. • Version number of previous version: 3 · 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 Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3