

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2023

Version number 6

Revision: 25.05.2023

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

· 1.1 Product identifier

• Trade name: G Thinner

• Article number: G012100

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

· Sector of Use SU16 Manufacture of computer, electronic and optical products, electrical equipment

• Product category PC21 Laboratory chemicals

· Application of the substance / the mixture Thinner, Diluent

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: Manufacturer: Kayaku Advanced Materials
200 Flanders Road Westborough, MA 01581 Telephone: (617) 965-5511 Fax: (617) 965-5818

Importer: A-Gas Electronic Materials Unit 3, IO Centre Swift Valley Rugby, Warwickshire CV21 1TW, UK Tel: +44-0-1788-537535 Fax: +44-0-1788-535835 Website: www.agasem.com Email: customerservice.em@agas.com

• Further information obtainable from:

Product Safety Email: productsafety@kayakuam.com **1.4 Emergency telephone number:** Kayaku Advanced Materials : 617-965-5511 Chemtrec USA Emergency : 800-424-9300 (24 hr) Chemtrec International Emergency : 703-527-3887 (24 hr)

SECTION 2: Hazards identification

· 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.

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2.2 Label eleme	ents
Labelling accor	ding to Regulation (EC) No 1272/2008
The product is c	classified and labelled according to the GB CLP regulation.
Hazard pictogro	ims
JUL 1	
GHS02 GHS	\$07
Signal word Wa	urning
Hazard stateme	nts
H226 Flammab	le liquid and vapour.
H315 Causes sk	
	prious eye irritation.
Precautionary s	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P260	Do not breathe 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	<i>IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</i>
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.
<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, 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	rds
	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. • 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.

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Dangerous components:	
CAS: 120-92-3 Cyclopentanone	75-100%
EINECS: 204-435-9 🐼 Flam. Liq. 3, H226; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 107-98-2 1-methoxy-2-propanol	5-25%
EINECS: 203-539-1 🐼 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
• 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
- · 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

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.
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

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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. 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 a cool location. Store in inert atmosphere or keep well sealed to prevent the formation of peroxides and other oxidation products.
 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 in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.

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

SECTION 8: Exposure controls/personal protection

· 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:

107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 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.

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• Respiratory protection:

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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 and ch	nemical properties
General Information	
Appearance:	
Form:	Liquid
Colour:	Clear to light yellow
Odour:	Sweetish
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	120-130 °C
Flash point:	30 °C
Flammability (solid, gas):	Not applicable.
Auto-ignition temperature:	270 °C
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Explosive properties:	<i>Product is not explosive. However, formation of explosive air/vapou mixtures are possible.</i>
Explosion limits:	
Lower:	1.3 Vol %
Upper:	Not determined.
Vapour pressure at 20 °C:	12 hPa



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· Density at 20 °C:	0.949 g/cm^3	
· 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.	
· Solvent content:		
Organic solvents:	100 %	
· 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 Stable
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Danger of 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 Acids, Strong Bases
- 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

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 rele	vant for classification:	
120-92-3 (120-92-3 Cyclopentanone		
Oral	LD50	1180 mg/kg (Rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
Inhalative	LC50/4 h	>19.5 mg/l (Rat)	
107-98-21	107-98-2 1-methoxy-2-propanol		
Oral	LD50	5660 mg/kg (Rat)	
Dermal	LD50	13000 mg/kg (rabbit)	
Inhalative	LC50/4 h	54.6 mg/l (Rat)	

• Primary irritant effect:

· Skin corrosion/irritation

Causes skin irritation.

• Serious eye damage/irritation

Causes serious eye irritation.

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

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ADVANCED MATERIALS

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• 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 Based on available data, the classification criteria are not met.
- 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:

120-92-3 Cyclopentanone

EC50/48 h | 100 mg/l (daphnia magna)

EC50/72 h >100 mg/l (scenedesmus subspicatus)

LC50/96 h >100 mg/l (fish)

107-98-2 1-methoxy-2-propanol

EC50/96 hr 23300 mg/l (daphnia magna)

>1000 mg/l (green algae)

LC50/96 h 20800 mg/l (Pimephales promelas)

• 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 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.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA

UN1993

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Printing date 25.05.2023 Version number 6 Revision: 25.05.2023 Trade name: G Thinner (Contd. of page 7) · 14.2 UN proper shipping name 1993 FLAMMABLE LIQUID, N.O.S. (CYCLOPENTANONE, $\cdot ADR$ 1-METHOXY-2-PROPANOL) · IMDG, IATA FLAMMABLE LIQUID, N.O.S. (CYCLOPENTANONE, 1-*METHOXY-2-PROPANOL)* · 14.3 Transport hazard class(es) · ADR, IMDG, IATA 3 Flammable liquids. · Class · 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): 33 · 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 D/E• Tunnel restriction code · UN ''Model Regulation'': UN1993, FLAMMABLE LIQUID, N.O.S. (CYCLOPENTANONE, 1-METHOXY-2-PROPANOL), 3, III

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• 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.H315 Causes skin irritation.H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.	
· Department issuing SDS: Product safety department	
· Contact: Tom Cole, EHS Manager (tcole@kayakuam.com)	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regu	lations 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 Cond	cerning the International
Carriage of Dangerous Goods by Road)	0
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	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit, 2: Serious eye damage/eye irritation – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	