ADVANCED MATERIALS

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.10.2021

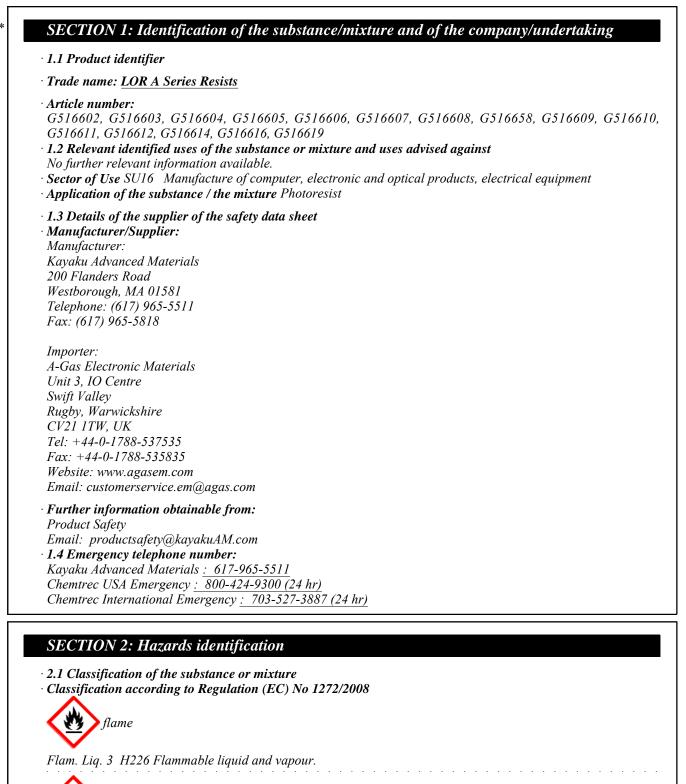
Skin Irrit. 2 H315 Causes skin irritation.

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Eve Irrit ? H	(Contd. of page 2 319 Causes serious eye irritation.
2.2 Label eleme	
	ding to Regulation (EC) No 1272/2008
	lassified and labelled according to the CLP regulation.
Hazard pictogra	
<u> </u>	
GHS02 GHS	807
Signal word Wa	irning
Hazard stateme	nts
H226 Flammabl	le liquid and vapour.
H315 Causes sk	
H319 Causes se	rious eye irritation.
Precautionary s	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. N 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	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
P305+P351+P3	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, Carbo
	dioxide.
P403+P235	Store in a well-ventilated place. Keep cool.
P403+P235 P501	Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international

• **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 compon	ents:	
CAS: 120-92-3	Cyclopentanone	65-90%
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	-
	Proprietary Dye A	0.1-2%
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1-20%

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· Additional Components:

102322-80-5 Polyaliphatic imide copolymer

🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319

• 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.

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

• Suitable extinguishing agents:

Alcohol resistant foam

*Fire-extinguishing powder* 

Carbon dioxide

· For safety reasons unsuitable extinguishing agents:

Water with full jet

Water

• 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 No release to water in manufacturing, process, use or disposal. Ensure good ventilation/exhaust at the workplace. Prevent formation of aerosols. Keep receptacles tightly sealed. Use only under yellow light

• 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.

• 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: 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

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

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

WEL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm Long-term value: 375 mg/m<sup>3</sup>, 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.

Do not inhale gases / fumes / aerosols.

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<sup>· 8.1</sup> Control parameters

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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

9.1 Information on basic physical and ch	nemical properties
General Information	
Appearance: Form:	Liquid
Colour:	Red
Odour:	Slightly sweet
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	120 °C
Flash point:	30 °C
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:	2.3 Vol %
Upper:	Not determined.
Vapour pressure at 20 °C:	12 hPa
Density:	Not determined

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Relative density	See Table 1 Other Information				
Vapour density	Not determ				
Evaporation rate	Not determ	nined.			
Solubility in / Miscibility with					
water:	Not miscil	ole or diffic	cult to mix.		
Partition coefficient: n-octanol/water:	Not determ	nined.			
Viscosity:					
Dynamic:	Not determined.				
Kinematic:	Not determ	nined.			
9.2 Other information	Name	Number	Sp. Grav.	Vol.(%by wt.)	VOC(g/L)
5	LOR 0.5A		0.965	98	945
	LOR 0.7A	G516603	0.968	97	940
	LOR 1A	G516604	0.973	96	940
	LOR 2A	G516605	0.977	95	935
	LOR 3A	G516606	0.98	94	920
	LOR 4A	G516607	0.982	93	915
	LOR 5A	G516608	0.984	92	905
	LOR 6A	G516658	0.986	92	905
	LOR 7A	G516609	0.988	91	900
	LOR 8A	G516610	0.988	90	895
	LOR 10A	G516611	0.99	89	885
	LOR 15A	G516612	0.99	87	860
	LOR 20A	G516614	0.99	86	850
	LOR 30A	G516616	0.99	84	830
	LOR 50A	G516619	0.995	81	820

### 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 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

Nitrogen oxides (NOx)

### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

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

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LD/LC50	values rele	vant for classification:	
120-92-3 (	Cyclopenta	none	
Oral	LD50	1180 mg/kg (Rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
Inhalative	LC50/4 h	>19.5 mg/l (Rat)	
107-98-21	-methoxy-	2-propanol	
Oral	LD50	5660 mg/kg (Rat)	
Dermal	LD50	13000 mg/kg (rabbit)	
Inhalative	LC50/4 h	54.6 mg/l (Rat)	
102322-80	-5 Polyalip	hatic imide copolymer	
Oral	LD50	>5000 mg/kg (Rat) (Data for compositionally similar material)	
Dermal	LD50	>5000 mg/kg (Rat) (Data for compositionally similar material)	
Primary ir Skin corro Causes ski Serious ey	sion/irritat n irritation	tion .	
Causes ser Respirator	ious eye ir. <b>y or skin s</b>	ritation. e <b>nsitisation</b> No information	
Additional	toxicologi	nans: No further relevant information available. cal information:	
	mutagenic	g <b>enity, mutagenicity and toxicity for reproduction)</b> ity No information nformation	
Reproduct	ive toxicity	No information	

· STOT-single exposure No information

• **STOT-repeated exposure** No information

· Aspiration hazard No information

# SECTION 12: Ecological information

12.1	Toxicity
------	----------

120-92-3 С	yclopentanone	
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 Persist	tence and degradability Moderately /partly biodegradable	

• 12.4 Mobility in soil No further relevant information available.

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• 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 N/A

· 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	1866 RESIN SOLUTION RESIN SOLUTION
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number:	Warning: Flammable liquids. 33 F-E, <u>S-E</u>
· 14.7 Transport in bulk according to Annex II o Marpol and the IBC Code	<b>f</b> Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ)	5L
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· Transport category	3	
• 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 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.
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 (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. 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 \* \* Data compared to the previous version altered.