

**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 13.06.2022

Version number 7 (replaces version 6)

Revision: 13.06.2022

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

### 1.1 Product identifier

Trade name: **Technovit 4071 Liquid**

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

No further relevant information available.

Application of the substance / the mixture Resin for metallographic testing

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Kulzer GmbH  
Leipziger Straße 2, 63450 Hanau (Germany)  
Tel.: +49 (0)6181 9689-2570 (Wehrheim)

Informing department: email: [technik.wehrheim@kulzer-dental.com](mailto:technik.wehrheim@kulzer-dental.com)

### 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Flam. Liq. 2            H225 Highly flammable liquid and vapour.  
Skin Irrit. 2            H315 Causes skin irritation.  
Eye Irrit. 2            H319 Causes serious eye irritation.  
Skin Sens. 1            H317 May cause an allergic skin reaction.  
STOT SE 3            H335 May cause respiratory irritation.  
Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

#### Hazard pictograms



GHS02    GHS07    GHS09

#### Signal word Danger

#### Hazard-determining components of labelling:

methyl methacrylate  
triethylen glycol dimethacrylate  
dodecane-1-thiol

#### Hazard statements

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P210                    Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241                    Use explosion-proof [electrical/ventilating/lighting] equipment.

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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

· **2.3 Other hazards -**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

· **3.2 Mixtures**

· **Description: -**

· **Dangerous components:**

CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-xxxx	methyl methacrylate ----- Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥25-≤50%
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-xxxx	triethylen glycol dimethacrylate ----- Skin Sens. 1B, H317	25-50%
CAS: 112-55-0 EINECS: 203-984-1	dodecane-1-thiol ----- Skin Corr. 1C, H314 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Skin Sens. 1A, H317	≥1-<2.5%
CAS: 3077-12-1 EINECS: 221-359-1 Reg.nr.: 01-2120791684-40-xxxx	2,2'-[(4-methylphenyl)imino]bisethanol ----- Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412 ATE: LD50 oral: 959 mg/kg	≥0.1-<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**

· **General information**

Take affected persons out of danger area and instruct to lie down.

Personal protection for the First Aider.

Instantly 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.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

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- Remove contact lenses, if present and easy to do. Continue rinsing.
- **After swallowing**
  - Rinse out mouth and then drink plenty of water.
  - In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
  - Allergic reactions
  - Coughing
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
  - **For safety reasons unsuitable extinguishing agents** Water.
- **5.2 Special hazards arising from the substance or mixture**
  - Can form explosive gas-air mixtures.
  - Formation of toxic gases is possible during heating or in case of fire.
  - Can be released in case of fire
  - Carbon dioxide (CO<sub>2</sub>)
  - Carbon monoxide (CO)
  - Nitrogen oxides (NO<sub>x</sub>)
  - sulphur oxides (SO<sub>x</sub>)
  - hydrogen sulphide (H<sub>2</sub>S)
- **5.3 Advice for firefighters**
  - **Protective equipment:**
    - Wear self-contained breathing apparatus.
    - (EN 133)
  - **Additional information** Cool endangered containers with water spray jet.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Avoid contact with eyes and skin.
  - Do not breathe vapor / mist / gas.
  - Ensure adequate ventilation
  - Keep away from ignition sources
- **6.2 Environmental precautions:**
  - Prevent material from reaching sewage system, holes and cellars.
  - Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
  - Send for recovery or disposal in suitable containers.
  - 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 information on disposal.
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**SECTION 7: Handling and storage**

**· 7.1 Precautions for safe handling**

- Keep containers tightly sealed.
- Avoid contact with eyes and skin.
- Do not breathe vapor / mist / gas.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

**· Information about protection against explosions and fires:**

- Keep ignition sources away - Do not smoke.
- Fumes can combine with air to form an explosive mixture.
- Use explosion-proof apparatus / fittings and spark-proof tools.
- Do not spray on flames or red-hot objects.
- Protect against electrostatic charges.

**· Handling**

- do not mix with  
amine  
metals  
Water.
- Strong oxidizers
- reducing agent
- Strong bases

**· 7.2 Conditions for safe storage, including any incompatibilities**

**· Storage**

- **Requirements to be met by storerooms and containers:**  
Store in cool, dry place in tightly closed containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

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

**SECTION 8: Exposure controls/personal protection**

**· 8.1 Control parameters**

**· Components with critical values that require monitoring at the workplace:**

**80-62-6 methyl methacrylate**

WEL (Great Britain)	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm
IOELV (European Union)	Short-term value: 100 ppm Long-term value: 50 ppm

**· DNELs**

**80-62-6 methyl methacrylate**

Oral	general population, long term, systemic	8.2 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.67 mg/Kg/d (not defined)
	general population, long term, systemic	8.2 mg/Kg/d (not defined)
Inhalative	worker industrial, acute, local	416 mg/m <sup>3</sup> (not defined)
	worker industrial, long term, systemic	348.4 mg/m <sup>3</sup> (not defined)
	worker industrial, long term, local	208 mg/m <sup>3</sup> (not defined)
	general population, acute, local	208 mg/m <sup>3</sup> (not defined)

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	general population, long term, systemic	74.3 mg/m <sup>3</sup> (not defined)
<b>109-16-0 triethylen glycol dimethacrylate</b>		
Oral	general population, long term, systemic	8.33 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.9 mg/Kg/d (not defined)
	general population, long term, systemic	8.33 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	48.5 mg/m <sup>3</sup> (not defined)
	general population, long term, systemic	14.5 mg/m <sup>3</sup> (not defined)
<b>3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol</b>		
Oral	general population, long term, systemic	0.16 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	0.47 mg/Kg/d (not defined)
	general population, long term, systemic	0.17 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	3.29 mg/m <sup>3</sup> (not defined)
	general population, long term, systemic	0.58 mg/m <sup>3</sup> (not defined)

**· PNECs**

**80-62-6 methyl methacrylate**

freshwater	0.94 mg/l (not defined)
marine water	0.094 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	10.2 mg/Kg (not defined)
sediment, dry weight, marine water	0.102 mg/Kg (not defined)
soil, dry weight	1.48 mg/Kg (not defined)

**109-16-0 triethylen glycol dimethacrylate**

freshwater	0.016 mg/l (not defined)
marine water	0.002 mg/l (not defined)
sewage treatment plant	1.7 mg/l (not defined)
sediment, dry weight, freshwater	0.185 mg/Kg (not defined)
sediment, dry weight, marine water	0.018 mg/Kg (not defined)
soil, dry weight	0.027 mg/Kg (not defined)

**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

freshwater	0.026 mg/l (not defined)
marine water	0.003 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	0.121 mg/Kg (not defined)
sediment, dry weight, marine water	0.012 mg/Kg (not defined)
soil, dry weight	0.009 mg/Kg (not defined)

**· Additional information:** The lists that were valid during the compilation 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 foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
  - **Breathing equipment:**  
Use breathing protection in case of insufficient ventilation.

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Filter A/P2.

- **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

chemical protection gloves are suitable, which are tested according to EN 374

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Check protective gloves prior to each use for their proper condition.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

NBR: acrylonitrile-butadiene rubber (0,11 mm)

- **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.

>30 min

- **Eye/face protection** eye protection (EN 166)

- **Body protection:** Light weight protective clothing

- **Environmental exposure controls**

Do not allow to enter drainage system, surface or ground water.

Do not allow to enter the ground/soil.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Colourless

- **Smell:**

Characteristic

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Not determined

- **Boiling point or initial boiling point and boiling range**

100.3 °C (80-62-6 methyl methacrylate)

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

10 °C (80-62-6 methyl methacrylate)

- **Ignition temperature:**

212 °C (112-55-0 dodecane-1-thiol)

- **Decomposition temperature:**

Not determined.

- **SADT**

- **pH**

Not determined.

- **Viscosity:**

- **Kinematic viscosity**

Not determined.

- **dynamic:**

Not determined.

- **Solubility**

- **Water:**

Not miscible or difficult to mix

- **Partition coefficient n-octanol/water (log value)**

Not determined.

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<ul style="list-style-type: none"> <li>· <b>Steam pressure at 20 °C:</b> 37 hPa (80-62-6 methyl methacrylate)</li> <li>· <b>Density and/or relative density</b> <ul style="list-style-type: none"> <li>· <b>Density at 20 °C</b> 1.00963 g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b> No further relevant information available.</li> <li>· <b>Appearance:</b> <ul style="list-style-type: none"> <li>· <b>Form:</b> Fluid</li> </ul> </li> <li>· <b>Important information on protection of health and environment, and on safety.</b> <ul style="list-style-type: none"> <li>· <b>Self-inflammability:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Product is not explosive. However, formation of explosive air/vapour mixtures is possible.</li> </ul> </li> <li>· <b>Change in condition</b> <ul style="list-style-type: none"> <li>· <b>Evaporation rate</b> Not determined.</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b> <ul style="list-style-type: none"> <li>· <b>Explosives</b> Void</li> <li>· <b>Flammable gases</b> Void</li> <li>· <b>Aerosols</b> Void</li> <li>· <b>Oxidising gases</b> Void</li> <li>· <b>Gases under pressure</b> Void</li> <li>· <b>Flammable liquids</b> <ul style="list-style-type: none"> <li>Highly flammable liquid and vapour.</li> </ul> </li> <li>· <b>Flammable solids</b> Void</li> <li>· <b>Self-reactive substances and mixtures</b> Void</li> <li>· <b>Pyrophoric liquids</b> Void</li> <li>· <b>Pyrophoric solids</b> Void</li> <li>· <b>Self-heating substances and mixtures</b> Void</li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b> Void</li> <li>· <b>Oxidising liquids</b> Void</li> <li>· <b>Oxidising solids</b> Void</li> <li>· <b>Organic peroxides</b> Void</li> <li>· <b>Corrosive to metals</b> Void</li> <li>· <b>Desensitised explosives</b> Void</li> </ul> </li> </ul>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Danger of polymerisation
- **10.4 Conditions to avoid**
  - moisture exposure
  - Heat, flames and sparks.
- **10.5 Incompatible materials:**
  - amine
  - metals
  - Radical initiator
  - reducing agent
  - Strong bases

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Strong oxidizers

Water.

· **10.6 Hazardous decomposition products:** None· **Additional information:** -

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**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 that are relevant for classification:**

**80-62-6 methyl methacrylate**

Oral	LD50	~7,900 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)
Inhalative	LC50/4 h	29.8 mg/l (rat)

**109-16-0 triethylen glycol dimethacrylate**

Oral	LD50	8,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (mouse)

**112-55-0 dodecane-1-thiol**

Oral	LD50	≥5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC0/4h	>3.1 mg/L (rat) (OECD 403)

**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

Oral	LD50	959 mg/kg (ATE) 959 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **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 respiratory irritation.

· **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.· **11.2 Information on other hazards**· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**· **Aquatic toxicity:**

**80-62-6 methyl methacrylate**

EC50/21d	49 mg/L (daphnia) (OECD 211)
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EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)
NOEC / 21d	37 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>110 mg/l (algae) (OECD 201)
NOEC / 72h	110 mg/l (algae) (OECD 201)
NOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)
EbC50 / 72h	>110 mg/l (algae) (OECD 201)
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)
LC50/ 35d	33.7 mg/L (fish) (OECD 210)

**109-16-0 triethylen glycol dimethacrylate**

EC50/21d	51.9 mg/L (daphnia) (OECD 211)
LC50/96h	16.4 mg/l (fish) (OECD 203)
NOEC / 21d	32 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	18.6 mg/l (algae) (OECD 201)
EbC50 / 72h	72.8 mg/l (algae) (OECD 201)

**112-55-0 dodecane-1-thiol**

EC50/48h	1-10 mg/l (daphnia) (OECD 202)
LC50/96h	>100 mg/l (fish)
NOEC / 72h	<0.0145 mg/l (algae) (OECD 201)
NOEC / 96h	100 mg/l (fish)
NOEC / 48h	0.14 mg/l (daphnia) (OECD 202)
EbC50 / 72h	<0.0145 mg/l (algae) (OECD 201)
ErC10/72h	<0.0145 mg/L (algae) (OECD 201)

**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

EC50/48h	48 mg/l (daphnia) (OECD 202)
LC50/96h	>100 mg/l (fish) (OECD 203)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	100 mg/l (algae) (OECD 201)

**12.2 Persistence and degradability**

**80-62-6 methyl methacrylate**

Biodegradation	94 % /14d (not defined) (OECD 301C)
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**109-16-0 triethylen glycol dimethacrylate**

Biodegradation	85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
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**112-55-0 dodecane-1-thiol**

Biodegradation	0 % /28d (not defined) (OECD 301D)
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**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

Biodegradation	1.5 % /29d (not defined) (OECD 301D)
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- **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**  
 The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
  - **Remark:** Harmful to fish

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· **Additional ecological information:**

· **General notes:**

Harmful to aquatic organisms

Avoid transfer into the environment.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation** Smaller quantities can be disposed with household garbage.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN1993

· **14.2 UN proper shipping name**

· **ADR**

1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (METHYL METHACRYLATE MONOMER, STABILIZED, dodecane-1-thiol)

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, dodecane-1-thiol), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, dodecane-1-thiol)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

3 (F1) Flammable liquids.

· **Label**

3

· **IMDG**



· **Class**

3 Flammable liquids.

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· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: dodecane-1-thiol
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Kemler Number:	33
· EMS Number:	F-E,S-E
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	-
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (METHYL METHACRYLATE MONOMER, STABILIZED, DODECANE-1-THIOL), 3, II

**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.

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- **Seveso category**

- Hazardous to the Aquatic Environment

- E2 Hazardous to the Aquatic Environment

- P5c FLAMMABLE LIQUIDS

- **Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t**

- **Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t**

- **Information about limitation of use:**

- Employment restrictions concerning young persons must be observed.

- Employment restrictions concerning pregnant and lactating women must be observed.

- **15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

## SECTION 16: Other information

These data are based on our present knowledge. However, they 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.

- H302 Harmful if swallowed.

- H314 Causes severe skin burns and eye damage.

- H315 Causes skin irritation.

- H317 May cause an allergic skin reaction.

- H318 Causes serious eye damage.

- H335 May cause respiratory irritation.

- H400 Very toxic to aquatic life.

- H410 Very toxic to aquatic life with long lasting effects.

- H412 Harmful to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

- SADT: Self Accelerating Decomposition Temperature

- 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)

- DNEL: Derived No-Effect Level (UK REACH)

- PNEC: Predicted No-Effect Concentration (UK REACH)

- 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

- Acute Tox. 4: Acute toxicity – Category 4

- Skin Corr. 1C: Skin corrosion/irritation – Category 1C

- 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. 1A: Skin sensitisation – Category 1A

- Skin Sens. 1B: Skin sensitisation – Category 1B

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

- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **Sources**

- (EC) 1272/2008: classification, labelling and packaging of substances and mixtures

- (EC) 1907/2006: UK REACH

- ADR/RID/ADN - IMDG - IATA: transport of dangerous goods by road, rail, inland waterway, with maritime vessels and for the air transport

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· \* *Data compared to the previous version altered.*

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