

Lockfast LF121 Part A

Version: 9 / GB

Date revised: 05.04.2022

Replaces Version: 8 / GB

Print date: 11.07.2022

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

1.1. Product identifier

Lockfast LF121 Part A

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

Identified Uses

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
PC1	Adhesives, sealants

Uses advised against

SU21	Consumer uses: Private households (= general public = consumers)
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1.3. Details of the supplier of the safety data sheet

Address/Supplier

Cyanotec Ltd
Bay 2 Building 62, Third Avenue,
Pensnett Trading Estate,
Kingswinford, West Midlands
DY6 7XT United Kingdom

Tel: +44 (0)1384 294753
Email: sales@cyanotec.com

1.4. Emergency telephone number

+44 (0) 1384 294753 (Monday - Thursday 9:00 to 17:00); all other times call your local Poison Control Center.

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335
Aquatic Chronic 3	H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements ***

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful 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.
P261.9 Avoid breathing vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep 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.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains 2-Hydroxyethyl methacrylate; Methyl-methacrylate; 1,4-Dihydroxybenzene; Cumene Hydroperoxide

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

Methyl-methacrylate

CAS No. 80-62-6
EINECS no. 201-297-1
Concentration >= 50 %
Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 2 H225
STOT SE 3 H335
Skin Irrit. 2 H315
Skin Sens. 1 H317

Additional remarks:

DSD Directive 67/548/EEC, Annex I, Note D
CLP Regulation (EC) No 1272/2008, Annex VI, Note D

2-Hydroxyethyl methacrylate

CAS No. 868-77-9
EINECS no. 212-782-2
Registration no. 01-2119490169-29
Concentration >= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)
Eye Irrit. 2 H319
Skin Sens. 1 H317
Skin Irrit. 2 H315

Cumene Hydroperoxide

CAS No. 80-15-9
EINECS no. 201-254-7
Concentration >= 1 < 2,5 %
Classification (Regulation (EC) No. 1272/2008)
STOT RE 2 H373
Skin Corr. 1B H314
Acute Tox. 4 H302
Acute Tox. 4 H312
Acute Tox. 3 H331
Org. Perox. E H242
Aquatic Chronic 2 H411

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Concentration limits (Regulation (EC) No. 1272/2008)

Eye Dam. 1	H318	>= 3 < 10
STOT SE 3	H335	>= 1 < 10
Skin Corr. 1B	H314	>= 10
Eye Irrit. 2	H319	>= 1 < 3
Skin Irrit. 2	H315	>= 3 < 10

Propylidynetrimehyl trimethacrylate

CAS No.	3290-92-4
EINECS no.	221-950-4
Registration no.	01-2119542176-41
Concentration	>= 1 < 2,5 %
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 2 H411

1,4-Dihydroxybenzene

CAS No.	123-31-9
EINECS no.	204-617-8
Registration no.	01-2119524016-51
Concentration	>= 0,1 < 1 %
Classification (Regulation (EC) No. 1272/2008)	Aquatic Acute 1 H400
	Skin Sens. 1 H317
	Eye Dam. 1 H318
	Carc. 2 H351
	Acute Tox. 4 H302
	Muta. 2 H341

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	M = 10
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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to

chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder, Carbon dioxide, Foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Do not pick up with the help of saw-dust or other combustible substances. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid impact, friction and electro-static loading; risk of ignition!. Keep container tightly closed. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take precautionary measures against static discharge. Avoid impact and friction. Keep away from combustible material.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

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Hints on storage assembly

Do not store with strong oxidizing agents.

Storage classes

Storage class according to TRGS 510 3 Flammable liquid

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Observe TDS precautions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

1,4-Dihydroxybenzene

Value 0,5 mg/m³

Methyl-methacrylate

Value 208 mg/m³ 50 ppm(V)

Short term exposure limit 416 mg/m³ 100 ppm(V)

Other information

There are not known any further control parameters.

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, Filter A

Hand protection

Chemical resistant gloves

Use Short-term hand contact

Appropriate Material nitrile

Material thickness >= 0,4 mm

Breakthrough time > 480 min

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid

Colour green

Odour characteristic

Odour threshold

Remarks not determined

pH value

Remarks not determined

Melting point

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Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value 101 °C

Flash point

Value 10 °C

Evaporation rate (ether = 1) :

Remarks not determined

Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Value 47 hPa

Temperature 20 °C

Vapour density

Remarks not determined

DensityValue 1 g/cm³

Temperature 25 °C

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity**dynamic**

Value 4000 to 6000 mPa.s

Temperature 25 °C

kinematicValue 4000 to 6000 mm²/s

Temperature 23 °C

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information**Other information**

None known

SECTION 10: Stability and reactivity

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10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	10.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		

Acute oral toxicity (Components)**Methyl-methacrylate**

Species	rat		
LD50		7872	mg/kg

Cumene Hydroperoxide

Species	rat		
LD50		382	mg/kg
Source	GESTIS-Stoffdatenbank		

Acute dermal toxicity

ATE	>	10.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		

Acute dermal toxicity (Components)**Methyl-methacrylate**

Species	rabbit		
LC50	>	5000	mg/kg

Cumene Hydroperoxide

Species	rat		
LD50		500	mg/kg
Source	GESTIS-Stoffdatenbank		

Acute inhalational toxicity

ATE	>	100	mg/l
Administration/Form	Vapors		
Method	calculated value according to GHS (e.g see UN GHS)		
ATE	>	20	mg/l
Administration/Form	Dust/Mist		
Method	calculated value according to GHS (e.g see UN GHS)		

Acute inhalative toxicity (Components)**Methyl-methacrylate**

Species	rat		
LC50		78000	mg/m ³
Duration of exposure	4	h	

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Cumene Hydroperoxide

Species	rat		
LC50	1,37		mg/l
Duration of exposure	4	h	
Source	GESTIS-Stoffdatenbank		

Skin corrosion/irritation

Remarks not determined

Serious eye damage/irritation

Remarks not determined

Sensitization

Remarks not determined

Sensitization (Components)**Methyl-methacrylate**

evaluation sensitizing

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**Methyl-methacrylate**

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	125,5	to	275,0 mg/l
Duration of exposure	96	h	

Daphnia toxicity (Components)**Methyl-methacrylate**

Species	Daphnia magna		
EC50	720		mg/l

Algae toxicity (Components)**Methyl-methacrylate**

Species	Algae		
EC50	170		mg/l
Duration of exposure	96	h	

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

12.6. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

EWC waste code 15 01 10* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
EmS		F-E, S-D	
14.1. UN number	1133	1133	1133
14.2. UN proper shipping name	ADHESIVES (Methyl-methacrylate)	ADHESIVES (Methyl-methacrylate)	ADHESIVES
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	III	III	III
Remarks	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	-	no	-

SECTION 15: Regulatory information

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

VOC

VOC (EU) 0 % 0 g/l

Other information

All components are contained in the TSCA inventory or exempted.
 All components are contained in the IECSC inventory.
 All components are contained in the ECL inventory.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225 Highly flammable liquid and vapour.
 H242 Heating may cause a fire.
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin.

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H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure:
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Org. Perox. E	Organic peroxide, Type E
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Department issuing safety data sheet

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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

1.1. Product identifier

Tradelock Pink and Green Part B

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

Identified Uses

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
PC1 Adhesives, sealants

Uses advised against

SU21 Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Address/Supplier

Cyanotec Ltd
Bay 2 Building 62, Third Avenue,
Pensnett Trading Estate,
Kingswinford, West Midlands
DY6 7XT United Kingdom

Tel: +44 (0)1384 294753
Email: sales@cyanotec.com

1.4. Emergency telephone number

+44 (0) 1384 294753 (Monday - Thursday 9:00 to 17:00); all other times call your local Poison Control Center.

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements ***

H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

Safety data sheet in accordance with regulation (EC) No 1907/2006

Lockfast LF121 Part B

Version: 9 / GB

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Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261.9	Avoid breathing vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P310	Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains	Methacrylic acid; 1-Benzoyl-2-Ethylimidazol; 2-Hydroxyethyl methacrylate; Methyl-methacrylate
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2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Methyl-methacrylate**

CAS No.	80-62-6	
EINECS no.	201-297-1	
Concentration	>= 50 %	
Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 2	H225
	STOT SE 3	H335
	Skin Irrit. 2	H315
	Skin Sens. 1	H317

Additional remarks:

DSD	Directive 67/548/EEC, Annex I, Note D
CLP	Regulation (EC) No 1272/2008, Annex VI, Note D

2-Hydroxyethyl methacrylate

CAS No.	868-77-9	
EINECS no.	212-782-2	
Registration no.	01-2119490169-29	
Concentration	>= 25 < 50 %	
Classification (Regulation (EC) No. 1272/2008)		
	Eye Irrit. 2	H319
	Skin Sens. 1	H317
	Skin Irrit. 2	H315

Methacrylic acid

CAS No.	79-41-4	
EINECS no.	201-204-4	
Registration no.	01-2119463884-26	
Concentration	>= 10 < 19 %	
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 3	H311
	Acute Tox. 4	H302
	Skin Corr. 1A	H314
	Acute Tox. 4	H332
	STOT SE 3	H335

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3	H335	>= 1
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Additional remarks:

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DSD Directive 67/548/EEC, Annex I, Note D
CLP Regulation (EC) No 1272/2008, Annex VI, Note D

Monobenzoyl Thiourea

CAS No. 614-23-3
Concentration $\geq 1 < 9,6 \%$
Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 4 H302

1-Benzoyl-2-Ethylimidazol

CAS No. 137590-32-0
EINECS no. 415-820-8
Concentration $\geq 1 < 3 \%$
Classification (Regulation (EC) No. 1272/2008)
Eye Dam. 1 H318
Skin Sens. 1 H317
Aquatic Chronic 3 H412

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. When vapours are intensively inhaled, seek medical help immediately.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder, Carbon dioxide, Foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Do not pick up with the help of saw-dust or other combustible substances. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Observe the usual precautions for handling chemicals. Avoid impact, friction and electrostatic loading; risk of ignition!. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take precautionary measures against static discharge. Avoid impact and friction. Keep away from combustible material.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store with strong oxidizing agents.

Storage classes

Storage class according to TRGS 510 3 Flammable liquid

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Observe TDS precautions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limit values**Methyl-methacrylate**

Value	208	mg/m ³	50	ppm(V)
Short term exposure limit	416	mg/m ³	100	ppm(V)

Methacrylic acid

Value	72	mg/m ³	20	ppm(V)
Short term exposure limit	143	mg/m ³	40	ppm(V)

Other information

There are not known any further control parameters.

8.2. Exposure controls**General protective and hygiene measures**

Do not smoke during work time. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Use NIOSH approved respirator if there is potential to exceed exposure limits. If this material is handled at elevated temperatures, or under mist-forming conditions without engineering controls, a NIOSH approved respirator must be used.

Hand protection

Chemical resistant gloves	
Use	Short-term hand contact
Appropriate Material	nitrile
Material thickness	>= 0,4 mm
Breakthrough time	> 480 min

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	pink
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Remarks	not determined
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Value	101 °C
Flash point	
Value	10 °C
Evaporation rate (ether = 1) :	

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Remarks not determined

Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Value 47 hPa
Temperature 20 °C

Vapour density

Remarks not determined

Density

Value 1 g/cm³
Temperature 25 °C

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

dynamic

Value 4000 to 6000 mPa.s
Temperature 25 °C

kinematic

Value 4000 to 6000 mm²/s
Temperature 23 °C

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

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No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	5.689,65	mg/kg
	52	
Method	calculated value according to GHS (e.g see UN GHS)	

Acute oral toxicity (Components)**Methacrylic acid**

Species	rat			
LD50	1320			mg/kg

Methyl-methacrylate

Species	rat			
LD50	7872			mg/kg

Acute dermal toxicity

ATE	5.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)	

Acute dermal toxicity (Components)**Methacrylic acid**

Species	rabbit			
LD50	500	to	1000	mg/kg

Methyl-methacrylate

Species	rabbit			
LC50	> 5000			mg/kg

Acute inhalational toxicity

ATE	15	mg/l
Administration/Form	Dust/Mist	
Method	calculated value according to GHS (e.g see UN GHS)	
ATE	> 100	mg/l
Administration/Form	Vapors	
Method	calculated value according to GHS (e.g see UN GHS)	

Acute inhalative toxicity (Components)**Methacrylic acid**

Species	rat			
LC50	7,1			mg/l
Duration of exposure	4		h	

Methyl-methacrylate

Species	rat			
LC50	78000			mg/m ³
Duration of exposure	4		h	

Skin corrosion/irritation

Remarks not determined

Serious eye damage/irritation

Remarks not determined

Sensitization

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Remarks not determined

Sensitization (Components)**Methacrylic acid**

Route of exposure dermal
Species guinea pig
evaluation non-sensitizing

Methyl-methacrylate

evaluation sensitizing

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**Methacrylic acid**

Species rainbow trout (*Oncorhynchus mykiss*)
LC50 85 mg/l
Duration of exposure 96 h

Methyl-methacrylate

Species Fathead minnow (*Pimephales promelas*)
LC50 125,5 to 275,0 mg/l
Duration of exposure 96 h

Daphnia toxicity (Components)**Methacrylic acid**

Species *Daphnia magna*
EC50 > 130 mg/l
Duration of exposure 48 h

Methacrylic acid

Species *Daphnia magna*
NOEC 53 mg/l

Methyl-methacrylate

Species *Daphnia magna*
EC50 720 mg/l

Algae toxicity (Components)**Methacrylic acid**

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Species	Selenastrum capricornutum	
EC50	45	mg/l
Duration of exposure	72	h

Methacrylic acid

Species	Selenastrum capricornutum	
NOEC	8,2	mg/l
Duration of exposure	72	h

Methyl-methacrylate

Species	Algae	
EC50	170	mg/l
Duration of exposure	96	h

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

12.6. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

EWC waste code 15 01 10* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
EmS		F-E, S-D	
14.1. UN number	1133	1133	1133
14.2. UN proper shipping name	ADHESIVES (Methyl-methacrylate, Methacrylic acid)	ADHESIVES (Methyl-methacrylate, Methacrylic acid)	ADHESIVES
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	III	III	III
Remarks	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.	The product is viscous; packing group III in containers with not more than 450 ltrs.
Limited Quantity	5 l		
Transport category	3		

SECTION 15: Regulatory information

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

VOC

VOC (EU) 0 % 0 g/l

Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the IECSC inventory.

All components are contained in the ECL inventory.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Department issuing safety data sheet

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.