

Safety Data Sheet

According to Regulation EC No. 1907/2006

GP 22 / Resin

Date of issue/Date of revision: 08.12.2021

en / GB - Version 1.0

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance

or preparation: GP 22

1.2 Use of the substance/preparation: Adhesive, Sealant

1.3 Company/undertaking identification

Company name: Gößl + Pfaff GmbH
 Street: Münchener Str. 13
 Place: 85123 Karlskron/Brautlach
 Telephone: +49 (0) 8450 / 932-0
 Fax.: +49 (0) 8450 / 932-13
 Contact person: Management: Mr. Gößl, Mr. Pfaff
 E-Mail: info@goessl-pfaff.de
 Internet: www.goessl-pfaff.de
 Responsible Department: Management

1.4 Emergency telephone

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463

2. Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP:

Flammable liquids, Category 2	H225
Organic Peroxides, Type C, D	H242
Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 1, Sub-Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02 GHS05 GHS07

Signal word: Danger

Contains:

Methyl Methacrylate, 2-Methylpropenoic Acid, 2-Hydroxyethyl Methacrylate, 4-Toluene Sulphonyl Chloride, Bis(Methacryloyloxyethyl) Hydrogen Phosphate, Cumene Hydroperoxide

Hazard statements:

H225: Highly flammable liquid and vapour.
 H242 - Heating may cause a fire.
 H290 - May be corrosive to metals.

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H314 - Causes severe skin burns and eye damage.
 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/sparks/open flames/hot surfaces. - No smoking

P261: Avoid breathing vapours

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.

P333+313: If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

3. Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYL METHACRYLATE substance with a Community workplace exposure limit	CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6 REACH-no: 01-2119452498- 28	≥ 20 – < 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
ACRYLIC COPOLYMER substance with a Community workplace exposure limit	-	≥ 10 – < 20	Not classified
2-METHYLPROPENOIC ACID	CAS-No.: 79-41-4 EC-No.: 201-204-4 EC Index-No.: 607-088-00-5 REACH-no: 01-2119463884- 26	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 STOT SE 3, H335
4-TOLUENE SULPHONYL CHLORIDE	CAS-No.: 98-59-9 EC-No.: 202-684-8 REACH-no: below tonnage level	≥1-<5	Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
2,6-DI-TERT-BUTYL-P-CRESOL	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119565113- 46	≥1-<5	Aquatic Chronic 1, H410
CUMENE HYDROPEROXIDE	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8	≥1-<5	Org. Perox. CD, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1A, H314 STOT RE 2, H373 Aquatic Chronic 2, H411
2-HYDROXYETHYL METHACRYLATE	CAS-No.: 868-77-9 EC-No.: 212-782-2 EC Index-No.: 607-124-00-X REACH-no: 01-2119490169- 29	<1	Eye Irrit. 2, H319 Skin Sens. 1, H317

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BIS(METHACRYLOYLOXYETHYL) HYDROGEN PHOSPHATE	CAS-No.: 32435-46-4 EC-No.: 251-040-2	< 1	Eye Dam. 1, H318 Skin Sens. 1B, H317
Mixture Of 5-Chloro-2-Methyl-2H- Isothiazol-3-One And 2-Methyl-2H- Isothiazol-3-One substance with a Community workplace exposure limit	CAS-No.: 55965-84-9 EC-No.: 911-418-6	<1	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Cumene Hydroperoxide	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8	(1 ≤ C ≤ 3) Eye Irrit. 2, H319 (3 ≤ C ≤ 10) Skin Irrit. 2, H315 (3 ≤ C ≤ 10) Eye Dam. 1, H318 (10 ≤ C < 100) Skin Corr. 1B, H314 (10 ≤ C < 100) STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

4. First aid measures

4.1. Description of first aid measures

First-aid measures general:

Get medical advice/attention if you feel unwell.

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

First-aid measures after skin contact:

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion:

Rinse mouth out with water. Get medical advice/attention.

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

Symptoms/effects after inhalation:

Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
May cause shortness of breath, tightness of the chest, a sore throat and cough.

Symptoms/effects after skin contact:

irritation (itching, redness, blistering).

Symptoms/effects after eye contact:

redness, itching, tears.

Symptoms/effects after ingestion:

Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Treat symptomatically.

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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable extinguishing media:

Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard:

Flammable liquid and vapour.

Hazardous decomposition products in case of fire:

Carbon dioxide. Carbon monoxide. Toxic fumes may be released.

5.3. Advice for fire-fighters

Precautionary measures fire:

Eliminate all ignition sources if safe to do so.

Firefighting instructions:

Do not enter fire area without proper protective equipment, including respiratory protection.

Use water spray or fog for cooling exposed containers. Eliminate all ignition sources if safe to do so.

Protection during firefighting:

Use self-contained breathing apparatus and chemically protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Do not handle until all safety precautions have been read and understood.

6.1.1. For non-emergency personnel

Protective equipment:

Wear recommended personal protective equipment.

Emergency procedures:

Keep upwind. Evacuate unnecessary personnel.

Only qualified personnel equipped with suitable protective equipment may intervene.

Measures in case of dust release:

Do not inhale dusts, particulates and spray mist when using this preparation.

6.1.2. For emergency responders

Protective equipment:

Use self-contained breathing apparatus and chemically protective clothing.

Emergency procedures:

Stop leak if safe to do so. Cover spill with non combustible material, e.g.: sand/earth.

7. Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautions for safe handling:

Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood.

Ensure good ventilation of the work station.

Handling temperature:

13–27°C

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Hygiene measures

Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.

Incompatible products:

Oxidizing agent. Strong acids.

Incompatible materials:

Sources of ignition.

Storage temperature:

13–27°C

Storage area:

Store in a well-ventilated place. Store away from heat.

Special rules on packaging:

Keep only in original container.

Packaging materials:

Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3. Specific end use(s)

Adhesives, sealants.

8. Exposure controls/personal protection

8.1 Control parameters:

8.1.1 National occupational exposure and biological limit values

METHYL METHACRYLATE (80-62-6)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Methyl methacrylate
IOEL TWA [ppm]	50 ppm
IOEL STEL [ppm]	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU

United Kingdom - Occupational Exposure Limits

Local name	Methyl methacrylate
WEL TWA (OEL TWA) [1]	208 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	416 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA) [1]	10 mg/m ³
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Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (55965-84-9)

EU - Binding Occupational Exposure Limit (BOEL)

BOEL TWA	0 mg/m ³
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ACRYLIC COPOLYMER

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	1 mg/m ³
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Exposure limit values for the other components

PARALOID EXL-2300 (9003-56-9)

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	1 mg/m ³
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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Type:

Safety glasses

Field of application

Droplet

Characteristics

With side shields

Standard

EN 166

8.2.2.2. Skin protection

Skin and body protection

Type:

Disposable gloves

Standard:

EN 374-2

Hand protection:

Nitrile rubber gloves

Hand protection

Type:

Disposable gloves

Material:

Nitrile rubber (NBR)

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Premeation:

2 (>30 minutes)

Thickness (mm):

< 0.7

Penetration

2 (< 1.5)

Standard

EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Respiratory protection:

Device:

Full face mask

Filter type:

ABEK-Hg/P3

Condition:

Vapour protection

Standard:

EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	amber.
Odour	Characteristic odour.
Odour threshold	No data available
pH	2 – 3
pH solution	50% Water suspension
Relative evaporation rate (butylacetate=1)	No data available
Melting point	-48 °C Based on MMA
Freezing point	No data available
Boiling point	100.5 °C Based on MMA
Flash point	15 °C
Auto-ignition temperature	421 °C Based on MMA
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	53hPa@20C
Relative vapour density at 20 °C	No data available
Relative density	0.97
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	120000 – 180000 cP
Explosive properties	No data available

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Oxidising properties

No data available

Explosive limits

No data available

9.2. Other information

VOC content: 56 – 57 %

10. Stability and reactivity

10.1. Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Material to avoid:

Strong acids. Oxidizing agent.

10.6. Hazardous decomposition products

Haz. decomp. products:

May liberate toxic gases.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral):

Not classified

Acute toxicity (dermal):

Not classified

Acute toxicity (inhalation):

Not classified

METHYL METHACRYLATE (80-62-6)

LD50 oral rat	> 5000 mg/kg
LD50 oral	29.8 mg/l 4hrs
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

2-METHYLPROPENOIC ACID (79-41-4)

LD50 oral rat	1320 mg/kg
LD50 dermal	500 – 1000 mg/kg

2-HYDROXYETHYL METHACRYLATE (868-77-9)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male
LD50	> 3000 mg/kg

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

LD50 oral rat	> 2930 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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BIS(METHACRYLOYLOXYETHYL) HYDROGEN PHOSPHATE (32435-46-4)

LD50 oral rat	> 5000 mg/kg
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4-TOLUENE SULFONYL CHLORIDE (98-59-9)

LD50 oral rat	4680 mg/kg
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ACRYLIC COPOLYMER

LD50 oral rat	> 5000 mg/kg
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Skin corrosion/irritation:

Causes severe skin burns.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: toxicity (migrated information)
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Reproductive toxicity:

Not classified

STOT-single exposure:

May cause respiratory irritation.

METHYL METHACRYLATE (80-62-6)

STOT-single exposure	May cause respiratory irritation.
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2-METHYLPROPENOIC ACID (79-41-4)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure:

Not classified

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

LOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	25 mg/kg bodyweight Animal: rat, Animal sex: male

CUMENE HYDROPEROXIDE (80-15-9)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard:

Not classified

12. Ecological information

12.1 Toxicity

Hazardous to the aquatic environment, short-term (acute):

Not classified

Hazardous to the aquatic environment, long-term (chronic):

Harmful to aquatic life with long lasting effects.

Not rapidly degradable.

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METHYL METHACRYLATE (80-62-6)

LC50 - Fish [1]	> 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

METHYL METHACRYLATE (80-62-6)

NOEC chronic fish	9.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'
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2-METHYLPROPENOIC ACID (79-41-4)

LC50 - Fish [1]	85 mg/l
EC50 - Other aquatic organisms [1]	> 130 mg/l

2-HYDROXYETHYL METHACRYLATE (868-77-9)

LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	380 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	380 mg/l
EC50 72h - Algae [1]	836 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	345 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	49.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	24.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

LC50 - Fish [1]	0.199 mg/l
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	0.48 mg/l Aquatic invertebrates
EC50 72h - Algae [1]	> 0.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	0.758 mg/l
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.053 mg/l Test organisms (species): Oryzias latipes Duration: '42 d'

4-TOLUENE SULPHONYL CHLORIDE (98-59-9)

LC50 - Fish [1]	> 100 mg/l Brachydanio rerio
LC50 - Fish [2]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	70 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 334 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

Bioconcentration factor (BCF REACH)	598
Partition coefficient n-octanol/water (Log Pow)	5.2

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

PBT: Not yet assessed.

vPvB: Not yet assessed.

13. Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste):

Disposal must be done according to official regulations.

Waste treatment methods:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations:

Disposal must be done according to official regulations.

Product/Packaging disposal recommendations:

Dispose in a safe manner in accordance with local/national regulations.

Additional information:

Industrial waste.

Ecology - waste materials European:

Avoid release to the environment.

List of Waste (LoW) code:

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

14. Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 2924	UN 2924	UN 2924	UN 2924	UN 2924
14.2. UN proper shipping name				
FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate; 2- Methylpropenoic Acid)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate; 2- Methylpropenoic Acid)	Flammable liquid, corrosive, n.o.s. (Methyl Methacrylate; 2- Methylpropenoic Acid)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate; 2- Methylpropenoic Acid)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate; 2- Methylpropenoic Acid)
Transport document description				
UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate; 2- Methylpropenoic Acid), 3 (8), II, (D/E)	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate; 2- Methylpropenoic Acid), 3 (8), II	UN 2924 Flammable liquid, corrosive, n.o.s. (Methyl Methacrylate; 2- Methylpropenoic Acid), 3 (8), II	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate; 2- Methylpropenoic Acid), 3 (8), II	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate; 2- Methylpropenoic Acid), 3 (8), II
14.3. Transport hazard class(es)				
3 (8)	3 (8)	3 (8)	3 (8)	3 (8)
14.4. Packing group				
II	II	II	II	II

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14.5. Environmental hazards

Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
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No supplementary information available

14.6. Special precautions for user

Overland transport (ADR)

Classification code	FC
Special provisions	274
Limited quantities	1I
Excepted quantities	E2
Packing instructions	P001, IBC02
Mixed packing provisions	MP19
Portable tank and bulk container instructions	T11
Portable tank and bulk container special provisions	TP2, TP27
Tank code	L4BH
Vehicle for tank carriage	FL
Transport category	2
Special provisions for carriage - Operation	S2, S20
Hazard identification number (Kemler No.)	338
Orange plates	338 2924

Tunnel restriction code	D/E
EAC code	•3WE
APP code	A(fl)

Transport by sea (IMDG)

Special provisions	274
Limited quantities	1L
Excepted quantities	E2
Packing instructions	P001
IBC packing instructions	IBC02
Tank instructions	T11
Tank special provisions	TP2, TP27
EmS-No. (Fire)	F-E
EmS-No. (Spillage)	S-C
Stowage category	B
Stowage and handling	SW2
Properties and observations	Causes burns to skin, eyes and mucous membranes.

Air transport (IATA)

PCA Excepted quantities	E2
PCA Limited quantities	Y340
PCA limited quantity max net quantity	0.5L
PCA packing instructions	352
PCA max net quantity	1L
CAO packing instructions	363
CAO max net quantity	5L
Special provisions	A3, A803
ERG code	3CH

Inland waterway transport (ADN)

Classification code	FC
Special provisions	274
Limited quantities	1L
Excepted quantities	E2
Equipment required	PP, EP, EX, A

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Ventilation	VE01
Number of blue cones/lights	1
Rail transport (RID)	
Classification code	FC
Special provisions	274
Limited quantities	1L
Excepted quantities	E2
Packing instructions	P001, IBC02
Mixed packing provisions	MP19
Portable tank and bulk container instructions	T11
Portable tank and bulk container special provisions	TP2, TP27
Tank codes for RID tanks	L4BH
Transport category	2
Colis express (express parcels)	CE7
Hazard identification number	338

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content: 56–57 %

15.1.2. National regulations

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15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier.

16. Other information

Abbreviations and acronyms:

CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number

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ED	Endocrine disrupting properties
EN	European Standard
IARC	International Agency for Research on Cancer
IOELV	Indicative Occupational Exposure Limit Value
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
vPvB	Very Persistent and Very Bioaccumulative
VOC	Volatile Organic Compounds
WGK	Water Hazard Class

Data sources: ECHA (European Chemicals Agency).

Full text of H- and EUH-statements:

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (inhalation:dust,mist)	Acute toxicity (Inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H242	Heating may cause a fire.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Org. Perox. CD	Organic Peroxides, Type C,D
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/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 RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.