Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Revision date : 13. Jul. 2026
Date of print : 13. Jul. 2026

1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : 2K MMAprofi
Article number (GTIN/EAN) : 4 260604 227104
Component : Activator
UFI : 9WXA-GVT1-420W-7V76

1.2 Identified uses of the substance or mixture

Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Use of the substance or mixture
Activator for 2 component adhesive

1.3 Details of the supplier of the safety data sheet

Company name
S-Polytec GmbH
Im Schlop 11
D - 47559 Kranenburg
Telephone : +49 2826 - 308 905-0

Department responsible for information
Department S-Polybond Adhesive
Mr Dipl. Ing (FH) Andreas Schröder
Telephone : +49 2826 - 308 905-0
Email : spolybond@s-polytec.de

1.4 Emergency telephone number

Poison Centre, Mainz
Telephone : +49 131 - 19 240

2 - Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin 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 EC regulation 1272/2008 (CLP)
The substance is classified and labelled in accordance with the CLP Regulation.

Hazard pictograms



GHS02 GHS07 GHS09

Signal word : Danger

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2 - Hazards identification

2.2 Label elements

Hazard statements

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

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling
Text for labelling
Contains Methyl methacrylate and Cobalt bis(2-ethylhexanoate).

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.
Higher doses may have a narcotic effect. Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment
This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher. The product does not contain any substances classified as PBT or vPvB.

3 - Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical characteristics

Mixture of the substances listed below with non-hazardous additions.

Hazardous ingredients:

Identifiers	Designation	Content	Classification
REACH 01-2119452498-28-xxxx EC No. 201-297-1 CAS 80-62-6	Methyl methacrylate	50 - 60%	Flam. Liq. 2 - H225, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, STOT SE 3 - H335
REACH 01-2119529241-49-xxxx EC No. 248-258-5 CAS 27138-31-4	Oxydipropyl dibenzo	<10%	Aquatic Chronic 3 - H412
EC No. 252-091-3 CAS 34562-31-7	3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	<2.5%	Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410 M-factors: Aquatic Acute 1 - M = 10, Aquatic Chronic 1 - M = 10

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3 - Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation	Content	Classification
EC No. 205-250-6 CAS 136-52-7	Cobalt bis(2-ethylhexanoate)	<0.1%	Eye Irrit. 2 - H319, Skin Sens. 1A - H317, Repr. 1B - H360, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412
REACH 01-2119457435-35-xxxx EC No. 203-539-1 CAS 107-98-2	1-Methoxy-2-propanol	<0.1%	Flam. Liq. 3 - H226, STOT SE 3 - H336

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

4 - First aid measures

4.1 Description of first aid measures

General information : If medical advice is needed, have product container or label at hand.
Take off contaminated clothing and wash it before reuse.

In case of inhalation : Provide fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Immediately get medical attention.

Following skin contact : Immediately clean with water and soap followed by thorough rinsing.
In case of skin reactions, consult a physician.

After eye contact : Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Remove contact lenses, if present and easy to do. Continue rinsing.
Subsequently consult an ophthalmologist.

After swallowing : Rinse mouth with water.
Never give anything by mouth to an unconscious person.
Do not induce vomiting. Seek medical attention.

4.2 Symptoms and effects

Most important symptoms and effects, both acute and delayed
May cause an allergic skin reaction. Causes skin irritation. May cause respiratory irritation.
Higher doses may lead to a narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 - Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water spray jet or water mist, carbon dioxide, extinguishing powder and foam.

Extinguishing media which must not be used for safety reasons
Full water jet.

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.
Hazardous vapours may form during fires.
Air combined with vapours may form potentially explosive mixtures that are heavier than air.
Vapours may proceed on the ground over great distances and cause fire and backflashes.
Furthermore, there may develop: metallic oxides, nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

5 - Firefighting measures

5.3 Advice for firefighters

Special protective equipment for firefighters
Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.
In case of fire and/or explosion do not breathe fumes.

Additional information
Heating will lead to pressure increase: Danger of bursting and explosion.
Keep containers cool with water spray.
In case of major fire and large quantities: Evacuate area.
Fight fire remotely due to the risk of explosion.
Do not allow fire water to penetrate into surface or ground water.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6 - Accidental release measures

6.1 Personal precautions

Personal precautions, protective equipment and emergency procedures
Avoid breathing mist/vapours/spray.
Avoid contact with the substance.
If possible, eliminate leakage.
Provide adequate ventilation.
Wear appropriate protective equipment.
Keep unprotected people away.
Take off contaminated clothing and wash it before reuse.
In case of leakage, eliminate all ignition sources.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
Do not allow to enter into soil/subsoil.
In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations. Refer to section 13.
Beware of reignition. Thoroughly clean surrounding area.
Use explosion-proof equipment and non-sparking tools/utensils. Leaking cans, cans with spillage, are to be segregated, sprayed to empty state and disposed of. Refer to section 13 (Waste removal)

Additional information
Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

7 - Handling and storage

7.1 Precautions for safe handling

Advices on safe handling
Provide adequate ventilation, and local exhaust as needed.
Avoid breathing mist/vapours/spray.
Do not get in eyes, on skin, or on clothing.
Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.
When handling large quantities, supply emergency spray.

7 - Handling and storage

7.1 Precautions for safe handling

Precautions against fire and explosion
Keep away from sources of ignition - No smoking.
In partially filled containers explosive mixtures may form.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers
Keep container dry, tightly closed and store at cool and aired place. Keep only in original container.
Protect from heat and direct sunlight.
Store containers in upright position.

Hints on joint storage
Do not store together with combustible or self-igniting materials or any highly flammable solids.
Keep away from oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

Storage class according to TRGS 510
LGK 3 = Flammable liquids

7.3 Specific end use(s)

No information available.

8 - Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS-No.	Designation	Type	Limit value
80-62-6	Methyl methacrylate	Europe: IOELV: STEL Europe: IOELV: TWA Ireland: 15 minutes Ireland: 8 hours	100 ppm 50 ppm 100 ppm 50 ppm
107-98-2	1-Methoxy-2-propanol	Europe: IOELV: STEL Europe: IOELV: TWA Ireland: 15 minutes Ireland: 8 hours	568 mg/m³; 150 ppm (may be absorbed through the skin) 375 mg/m³; 100 ppm (may be absorbed through the skin) 568 mg/m³; 150 ppm 375 mg/m³; 100 ppm
34590-94-8	(2-Methoxymethylethoxy)propanol	Europe: IOELV: TWA Ireland: 8 hours	308 mg/m³; 50 ppm (may be absorbed through the skin) 308 mg/m³; 50 ppm (may be absorbed through the skin)

Biological exposure limit values

CAS-No.	Designation	Type	
107-98-2	1-Methoxy-2-propanol	Germany: TRGS 903, Urine	**Limit value** : 15mg/L **Parameter** : 1-Methoxypropanol-2 **Sampling time**: End of exposure or end of shift

DNEL/DMEL

Information about Methyl methacrylate		
DNEL short-term	workers, dermal, local	1.5 mg/cm²
DNEL short-term	workers, inhalative, local	416 mg/m³
DNEL long-term	workers, dermal, systemic	13.67 mg/kg bw/d
DNEL long-term	workers, inhalative, systemic	208 mg/m³
DNEL long-term	workers, dermal, local	1.5 mg/cm²
DNEL long-term	workers, inhalative, local	208 mg/m³

8 - Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL

Information about Methyl methacrylate		
DNEL short-term	consumers, dermal, local	1.5 mg/cm²
DNEL short-term	consumers, inhalative, local	208 mg/m³
DNEL long-term	consumers, dermal, systemic	8.2 mg/kg bw/d
DNEL long-term	consumers, inhalative, systemic	74.3 mg/m³
DNEL long-term	consumers, dermal, local	1.5 mg/cm²
DNEL long-term	consumers, inhalative, systemic	105 mg/m³

Information about Oxydipropyl dibenzoate		
DNEL short-term	workers, dermal, systemic	170 mg/kg bw/d
DNEL short-term	workers, inhalative, systemic	35.08 mg/m³
DNEL long-term	workers, dermal, systemic	10 mg/kg bw/d
DNEL long-term	workers, inhalative, systemic	8.8 mg/m³
DNEL short-term	consumers, dermal, systemic	80 mg/kg bw/d
DNEL short-term	consumers, inhalative, systemic	8.7 mg/m³
DNEL short-term	consumers, oral, systemic	80 mg/kg bw/d
DNEL long-term	consumers, inhalative, systemic	0.22 mg/kg bw/d
DNEL long-term	consumers, dermal, systemic	8.69 mg/m³
DNEL long-term	consumers, oral, systemic	5 mg/kg bw/d

PNEC

Information about Methyl methacrylate		
PNEC water	freshwater	0.94 mg/L
PNEC water	marine water	0.94 mg/L
PNEC water	intermittent release	0.94 mg/L
PNEC sewage treatment plant		10 mg/L
PNEC sediment	freshwater	5.74 mg/kg dw
PNEC sediment	marine water	5.74 mg/kg dw
PNEC soil		1.47 mg/kg dw

Information about Oxydipropyl dibenzoate		
PNEC water	freshwater	0.0037 mg/L
PNEC water	marine water	0.00037 mg/L
PNEC water	intermittent release	0.037 mg/L
PNEC sewage treatment plant		10 mg/L
PNEC sediment	freshwater	1.49 mg/kg
PNEC sediment	marine water	0.149 mg/kg
PNEC soil		1 mg/kg dw

8.2 Exposure controls

General protective measures
Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protective equipment

Respiratory protection
Respiratory protection must be worn whenever the WEL levels have been exceeded.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.
If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection
Protective gloves according to BS EN ISO 374:1.
Observe glove manufacturer‘s instructions concerning penetrability and breakthrough time.

8 - Exposure controls/personal protection

8.2 Exposure controls

Eye protection
Tightly sealed goggles according to BS EN ISO 16321-1:2022.

Body protection
Flame retardant, antistatic and chemical resistant protective clothing.

General protection and hygiene measures
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
Avoid breathing mist/vapours/spray.
Do not get in eyes, on skin, or on clothing.
Take off contaminated clothing and wash it before reuse.
Contaminated work clothing should not be allowed out of the workplace.
When using do not eat or drink.
Wash hands thoroughly after handling.
When handling large quantities, supply emergency spray.

Environmental exposure controls

Refer to section 6.2 (Environmental precautions).

9 - Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Physical state Form Colour	 liquid (at 20 °C and 101.3 kPa) Paste white
Odour	strong odour of acryl
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point/flash point range	10 °C (c.c)
Explosive limits lower explosive limit upper explosive limit	 No data available No data available
Vapour pressure	No data available
Vapour density	No data available
Density	0.97 - 1.01 g/mL
Solubility	No data available
Partition coefficient n-octanol/water	No data available
Flammability	No data available
Decomposition temperature	No data available
Viscosity (kinematic)	>40 mm²/s at 40 °C
Particle characteristics	No data available

9.2 Other information

Explosive properties	No data available
Oxidizing characteristics	No data available
Auto-ignition temperature	No data available
Evaporation rate	No data available

Additional information
No data available.

10 - Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour.
Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames. Protect from direct sunlight.

10.5 Incompatible materials

Oxidising agent.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition
No data available.

11 - Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects
The statements are derived from the properties of the single components.
No toxicological data is available for the product as such.

Acute toxicity (oral)	: Based on available data, the classification criteria are not met. ATEmix (calculated): ATE > 5,000 mg/kg.
Acute toxicity (dermal)	: ATEmix (calculated): 2.000 < ATE < 5,000 mg/kg.
Acute toxicity (inhalative)	: Based on available data, the classification criteria are not met. ATEmix (calculated): >20 mg/L
Skin corrosion/irritation	: Skin Irrit. 2 - H315 = Causes skin irritation.
Serious eye damage/irritation	: Lack of data.
Sensitisation to the respiratory tract	: Lack of data.
Skin sensitisation	: Skin Sens. 1 - H317 = May cause an allergic skin reaction.
Germ cell mutagenicity/Genotoxicity	: Lack of data.
Carcinogenicity	: Lack of data.
Reproductive toxicity	: Lack of data.
Effects on or via lactation	: Lack of data.
Specific target organ toxicity	
single exposure	: STOT SE 3 - H335 = May cause respiratory irritation.
repeated exposure	: Lack of data.
Aspiration hazard	: Lack of data.

11.2 Information on other hazards

Endocrine disrupting properties
None.

Symptoms
In case of inhalation : Irritation to respiratory tract, cough.
After contact with skin : Skin irritations, redness.
After eye contact : Upon direct contact with eyes may cause burning, tearing, redness.

11 - Toxicological information

11.2 Information on other hazards

Other information

Information about Methyl methacrylate		
LD50 Rat	oral	7872 mg/kg
LD50 Rabbit	dermal	>5000 mg/kg
LD50 Rat	inhalative (vapour)	78000 mg/m³/4h

Information about Oxydipropyl dibenzoate		
LD50 Rat	oral	3295 mg/kg
LD50 Rabbit	dermal	>2000 mg/kg
LC50	inhalative (Dusts and mist)	>200 mg/L/4h

Information about 3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine		
LD50 Rat	oral	1620 mg/kg
LD50 Rabbit	dermal	>1000 mg/kg

Information about 1-Methoxy-2-propanol		
LD50 Rat	oral	13000 mg/kg
LD50 Rabbit	dermal	6600 mg/kg

12 - Ecological information

12.1 Toxicity

Aquatic toxicity
Toxic to aquatic life with long lasting effects.

Information about Methyl methacrylate:
Fish toxicity : Pimephales promelas (fathead minnow), freshwater, LC50 acute: 130 mg/L/96 h

Information about Oxydipropyl dibenzoate:
Fish toxicity : LC50: 3.7 mg/L/96h
Daphnia toxicity : EC50: 19.3 mg/L/48h
Algae toxicity : EC50: 4,9 mg/L/72h

Water hazard class
WGK 3 = Highly hazardous to water.

12.2 Persistence and degradability

Further information
Biodegradability : Information about Oxydipropyl dibenzoate: 87 %/28 d. Readily degradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water
No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None.

12.7 Other adverse effects

General information
Do not allow to enter into ground-water, surface water or drains.
Do not allow uncontrolled discharge of product into the environment.

13 - Disposal considerations

13.1 Waste treatment methods

Product

Waste key number : 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances
* = Evidence for disposal must be provided.

Recommendation : Dispose of waste according to applicable legislation.

Package

Recommendation : Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Handle empty containers with care. Incineration may cause explosion.
Non-contaminated packages may be recycled.

14 - Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR : UN 1133

14.2 UN proper shipping name

ADR/RID : UN 1133, ADHESIVES
ADN : UN 1133, Adhesives
IMDG : UN 1133, ADHESIVES (Methyl methacrylate), MARINE POLLUTANT
IATA-DGR : UN 1133, ADHESIVES

14.3 Transport hazard class(es)

ADR/RID, ADN : Class 3, Code: F1
IMDG : Class 3, Subrisk -
IATA-DGR : Class 3



14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR : II

14.5 Environmental hazards

Dangerous for the environment : Substance/mixture is environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG : yes

Marine pollutant - ADN : yes



14.6 Special precautions for user

Land transport (ADR/RID)

Warning board	: ADR/RID: Kemler-number 33, UN number UN 1133
Hazard label	: 3
Special Provisions	: 640D
Limited quantities	: 5 L
Excepted qua ntities	: E2
Package - Instructions	: P001 IBC02 R001
Package - Special Provisions	: PP1
Special provisions for packing together	: MP19
Portable tanks - Instructions	: T4
Portable tanks - Special Provisions	: TP1 TP8
Tank coding	: LGBF
Tunnel restriction code	: D/E

14 - Transport information

14.6 Special precautions for user

Inland waterway transport (ADN)

Hazard label	: 3
Special Provisions	: 640D
Limited quantities	: 5 L
Excepted quantities	: E2
Equipment required	: PP - EX - A
Ventilation	: VE01

Sea transport (IMDG)

EmS	: F-E, S-D
Special Provisions	: -
Limited quantities	: 5 L
Excepted quantities	: E2
Package - Instructions	: P001
Package - Provisions	: PP1
IBC - Instructions	: IBC02
IBC - Provisions	: -
Tank instructions - IMO	: -
Tank instructions - UN	: T4
Tank instructions - Provisions	: TP1, TP8
Stowage and handling	: Category B.
Properties and observations	: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.
Segregation group	: none

Air transport (IATA)

Hazard label	: Flamm. liquid
Excepted Quantity Code	: E2
Passenger and Cargo Aircraft: Ltd.Qty.	: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft	: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only	: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisions	: A3
Emergency Response Guide-Code (ERG)	: 3L

14.7 Maritime transport in bulk according to IMO instruments

No data available.

15 - Regulatory information

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

National regulations - Germany

Storage class
LGK 3 - Flammable liquids.

Water hazard class
WGK 3 - Highly hazardous to water.

Major Accidents Ordinance (12th BImSchV)
Physical hazards: Section 1.2.5.3 = Code P5c, quantity threshold 5,000,000 kg / 50,000,000 kg
Environmental hazards: Section 1.3.2 = Code E2, quantity threshold 200,000 kg / 500,000 kg

Technical Instructions on Air Quality Control
5.2.5: 65.5 - 100 %

Information on employment restrictions
Observe employment restrictions for young persons.
Observe employment restrictions for expectant and nursing mothers.

Other regulations, restrictions and ordinances
The product is not subject to the German Chemicals Prohibition Ordinance (ChemVerbotsV).

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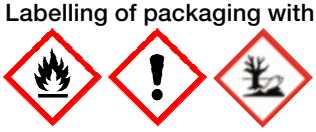
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15 - Regulatory information

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

National regulations - EC member state

Labelling of packaging with <= 125mL content



Signal word : **Danger**

Hazard statements

H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

Precautionary statements

P102	Keep out of reach of children.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Further regulations, limitations and legal requirements

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: see national regulation Germany, 12. BImSchV
Use restriction according to REACH annex XVII No.: 3, 40, 75.
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P5c, E2

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

16 - Other information

16.1 Relevant phrases

Wording of the H-phrases under paragraph 2 and 3

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H360	May damage fertility or the unborn child.
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

16.2 Abbreviations and acronyms

Acute Tox.	Acute toxicity
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
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
AS/NZS	Australian Standards/New Zealand Standards

16 - Other information

16.2 Abbreviations and acronyms

CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
CLP	Classification, Labelling and Packaging
DMEL	Derived minimal effect level
DNEL	Derived no-effect level
EC	European Community
EC50	Effective Concentration 50%
EN	European Standard
EQ	Excepted quantities
EU	European Union
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code	International Maritime Dangerous Goods Code
LC50	Median lethal concentration
LD50	Lethal dose 50%
MARPOL	Maritime Pollution - The International Convention for the Prevention of Pollution from Ships
M-factor	Multiplication factor
OEL	Occupational Exposure Limit Value
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no-effect concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure
TLV	Threshold Limit Value
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
vPvB	Very persistent and very bioaccumulative
WEL	Workplace Exposure Limit

16.3 Department issuing data sheet

See section 1 (Department responsible for information)

16.4 Training advice

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16.5 Key literature references and sources of data

Germany – BG RCI:
- Information sheet M 004 “Acids and Alkalis”
- Information sheet M 050 “Activities involving hazardous substances”
- Information sheet M 053 “Occupational safety measures for activities involving hazardous substances”

16.6 Revision information

Reason of change

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Date of first version

13. July 2026

16.7 Other information

The information provided in this safety data sheet has been compiled to the best of our knowledge and reflects the state of knowledge at the date of revision. However, it does not constitute a legally binding guarantee of specific properties. Liability is excluded.