

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

CowMotion

Hoof Glue

CowMotion Hoof Glue MULTI CRAFT BLACK ACTIVATOR

Material number MULTI_CRAFT_ACTIVATOR

Revision date: 23/9/2022
Version: 1.0

Language: en-IE

Date of print: 4/10/2022
Page: 1 of 11

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

1.1 Product identifier

Trade name: CowMotion Hoof Glue MULTI CRAFT BLACK ACTIVATOR

This safety data sheet pertains to the following products:
CowMotion Hoof Glue Multi Craft BLACK ACTIVATOR

UFI: 5ER0-H03V-F00X-NTW2

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

General use: Activator for 2 component adhesive

1.3 Details of the supplier of the safety data sheet

Company name: WIKO Klebetechnik Sp. z o.o.

Street/POB-No.: ul. Ekonomiczna 8

Postal Code, city: PL-42-271 Czestochowa

WWW: www.gluetec-group.com

E-mail: info.pl@gluetec-group.com

Telephone: +48 (0) 34 372 58 58

Telefax: +48 (0) 34 371 11 14

Department responsible for information:

Telephone: +48 (0) 34 372 58 58, E-mail: info.pl@gluetec-group.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Eye Irrit. 2; H319 Causes serious eye irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Aquatic Acute 1; H400 Very toxic to aquatic life.

Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements:

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H410

Very toxic to aquatic life with long lasting effects.

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Precautionary statements:	P102	Keep out of reach of children.
	P261	Avoid breathing mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P391	Collect spillage.
	P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains dibenzoyl peroxide and Dibutyl maleate.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119529241-49-xxxx EC No. 248-258-5 CAS 27138-31-4	Oxydipropyl dibenzoate	40 - 50 %	Aquatic Chronic 3; H412.
REACH 01-2119511472-50-xxxx EC No. 202-327-6 CAS 94-36-0	Dibenzoyl peroxide	20 - 30 %	Org. Perox. B; H241. Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Acute 1; H400 (M-factor = 10). Aquatic Chronic 1; H410 (M-factor = 10).
EC No. 203-328-4 CAS 105-76-0	Dibutyl maleate	< 10 %	Skin Sens. 1; H317. STOT RE 2; H373.

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

SECTION 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. First aider: Pay attention to self-protection!
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Make sure he/she is warm and comfortable. Seek medical treatment in case of troubles. If unconscious place in recovery position and seek medical advice.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.

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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. Seek the attention of an ophthalmologist immediately.

After swallowing: Do not induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Causes serious eye irritation.
Other symptoms: Pain, irritation, redness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, foam, extinguishing powder, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Heating will lead to pressure increase: Danger of bursting and explosion.
In case of fire may be liberated: Metallic oxides, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Use fine water spray to cool endangered containers.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow water used to extinguish fire to enter drains, ground or waterways.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 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. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Stop leak if safe to do so. Smaller amounts: Dilute with plenty of water.
Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.
Thoroughly clean surrounding area.

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

6.4 Reference to other sections

Refer additionally to section 8 and 13.

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SECTION 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. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion: Keep away from heat. Take precautionary measures against static discharge.

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. Store containers in upright position. Keep only in original container. Protect from heat and direct sunlight.

Hints on joint storage: Do not store together with strong oxidizing agents. Keep away from food and drinks. Keep/Store away from combustible materials.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
94-36-0	Dibenzoyl peroxide	Ireland: 8 hours	5 mg/m ³

DNEL/DMEL: Information about Oxydipropyl dibenzoate:
Systemic effects:
DNEL Long-term, workers, dermal: 10 mg/kg bw/d
DNEL Short-term, workers, dermal: 170 mg/kg bw/d
DNEL Long-term, workers, inhalative: 8.8 mg/m³
DNEL Short-term, workers, inhalative: 35.08 mg/m³
DNEL Long-term, consumer, dermal: 0.22 mg/kg bw/d
DNEL Long-term, consumer, inhalative: 8.69 mg/m³
DNEL Long-term, consumer, oral: 5 mg/kg bw/d
DNEL Short-term, consumer, dermal: 80 mg/kg bw/d
DNEL Short-term, consumer, inhalative: 8.7 mg/m³
DNEL Short-term, consumer, oral: 80 mg/kg bw/d
Information about Dibenzoyl peroxide:
Systemic effects:
DNEL Long-term, workers, inhalative: 11.75 mg/m³
DNEL Long-term, workers, dermal: 6.6 mg/kg bw/d
DNEL Long-term, consumer, dermal: 2.9 mg/m³
DNEL Long-term, consumer, dermal: 3.3 mg/kg bw/d
DNEL Long-term, consumer, oral: 1.65 mg/kg bw/d

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PNEC: Information about Oxydipropyl dibenzoate:
PNEC water (freshwater): 0.0037 mg/L
PNEC water (marine water): 0.00037 mg/L
PNEC freshwater sediment: 1.49 mg/L
PNEC marine sediment: 0.149 mg/L
PNEC soil: 1 mg/kg
PNEC sewage treatment plant: 10 mg/kg
Information about Dibenzoyl peroxide:
PNEC water (freshwater): 0.000602 mg/L
PNEC water (marine water): 0.0000602 mg/L
PNEC freshwater sediment: 0.338 mg/L
PNEC soil: 0.0758 mg/kg
PNEC sewage treatment plant: 0.35 mg/kg

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

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.

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

Eye protection: Tightly sealed goggles according to EN 166

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	black
Odour:	mild
Odour threshold:	No data available
Melting point/freezing point:	No data available
initial boiling point and boiling range:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	> 100 °C (c.c.)
Decomposition temperature:	No data available
pH:	Not applicable
Viscosity, kinematic:	at 40 °C: > 40 mm ² /s
Solubility:	No data available

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Partition coefficient: n-octanol/water:	3.2 (Dibutyl maleate) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. 3.9 (Oxydipropyl dibenzoate) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. 3.39 (Dibenzoyl peroxide) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapour pressure:	No data available
Density:	1.05 - 1.15 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable
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

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

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

Thermal decomposition: No data available

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SECTION 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 > 2,000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met. ATEmix (calculated): ATE > 20 mg/L.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

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): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

11.2 Information on other hazards

Endocrine disrupting properties:

No data available

Other information:

Information about Oxydipropyl dibenzoate:
LD50 Rat, oral: 3,295 mg/kg
LD50 Rabbit, dermal: > 2,000 mg/kg
LC50 Rat, inhalative (dust/mist): > 200 mg/L/4h

Information about Dibenzoyl peroxide:
LD50 Rat, oral: 6,400 mg/kg
LC50 Rat, inhalative (dust/mist): > 24.3 mg/L/4h

Information about Dibutyl maleate:
LD50 Rat, oral: 3,700 mg/kg
LD50 Rabbit, dermal: 10,000 mg/kg
LC50 Rat, inhalative (dust/mist): > 5 mg/L/4h

Symptoms

After contact with skin: redness, irritation
After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Information about Dibenzoyl peroxide:

Fish toxicity:

LC50 (Acute toxicity): 0.06 mg/L/96h

Daphnia toxicity:

EC50 (Acute toxicity): 0.11 mg/L/48h

Algae toxicity:

EC50 (Acute toxicity): 0.06 mg/L/72h

Information about Dibutyl maleate:

Daphnia toxicity:

EC50 (Acute toxicity): 21 mg/L/48h

Algae toxicity:

EC50 (Acute toxicity): 6.2 mg/L/72h

12.2 Persistence and degradability

Further details: Biodegradability:

Information about Oxydipropyl dibenzoate: 87 %/ 28d, readily biodegradable.

Information about Dibutyl maleate: 95 %/ 19d, readily biodegradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

3.2 (Dibutyl maleate)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

3.9 (Oxydipropyl dibenzoate)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

3.39 (Dibenzoyl peroxide)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4 Mobility in soil

Information about Dibutyl maleate (Bioconcentration factor (BCF)): 1.91

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

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SECTION 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
MFSU = manufacture, formulation, supply and use
* = 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. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: UN 3082

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Dibenzoyl peroxide)

14.3 Transport hazard class(es)

ADR/RID: Class 9, Code: M6
IMDG: Class 9, Subrisk -
IATA-DGR: Class 9



14.4 Packing group

ADR/RID, IMDG, IATA-DGR: III

14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant:

yes



14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 90, UN number UN 3082
Hazard label: 9
Special Provisions: 274 335 375 601
Limited quantities: 5 L
EQ: E1
Package - Instructions: P001 IBC03 LP01 R001
Package - Special Provisions: PP1
Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special Provisions: TP1 TP29
Tank coding: LGBV
Tunnel restriction code: -

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Sea transport (IMDG)

EmS: F-A, S-F
Special Provisions: 274 335 969
Limited quantities: 5 L
Excepted quantities: E1
Package - Instructions: P001, LP01
Package - Provisions: PP1
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP2, TP29
Stowage and handling: Category A.
Properties and observations: -
Segregation group: none

Air transport (IATA)

Hazard label: Miscellaneous & Environmentally hazardous
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisions: A97 A158 A197 A215
Emergency Response Guide-Code (ERG): 9L

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - EC member states

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
Environmental hazards: Code E1, Quantity threshold 100 000 kg / 200 000 kg
Use restriction according to REACH annex XVII, no.: 3, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H241 = Heating may cause a fire or explosion.
H317 = May cause an allergic skin reaction.
H319 = Causes serious eye 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.
H412 = Harmful to aquatic life with long lasting effects.

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Abbreviations and acronyms: 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
AS/NZS: Australian Standards/New Zealand Standards
BCF: Bioconcentration Factor
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
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
MFSU: Manufacture, formulation, supply and use
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
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
STOT RE: Specific target organ toxicity - repeated exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Date of first version: 23/9/2022

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

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CowMotion

Hoof Glue

CowMotion Hoof Glue MULTI CRAFT BLACK ADHESIVE

Material number MULTI_CRAFT_ADHESIVE

Revision date: 28/9/2022
Version: 1.0

Language: en-IE

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

1.1 Product identifier

Trade name: CowMotion Hoof Glue MULTI CRAFT BLACK ADHESIVE

This safety data sheet pertains to the following products:
CowMotion Hoof Glue Multi Craft BLACK ADHESIVE

UFI: VHR0-00T8-S00F-A5G4

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

General use: Adhesive for 2 component adhesive

1.3 Details of the supplier of the safety data sheet

Company name: WIKO Klebetechnik Sp. z o.o.

Street/POB-No.: ul. Ekonomiczna 8

Postal Code, city: PL-42-271 Czestochowa

WWW: www.gluetec-group.com

E-mail: info.pl@gluetec-group.com

Telephone: +48 (0) 34 372 58 58

Telefax: +48 (0) 34 371 11 14

Department responsible for information:

Telephone: +48 (0) 34 372 58 58, E-mail: info.pl@gluetec-group.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

SECTION 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 Corr. 1A; H314	Causes severe skin burns and eye damage.
Eye Dam. 1; H318	Causes serious eye damage.
Skin Sens. 1; H317	May cause an allergic skin reaction.
STOT SE 3; H335	May cause respiratory irritation.
Aquatic Chronic 3; H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



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.
H412	Harmful to aquatic life with long lasting effects.

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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.
	P260	Do not breathe mist/vapours/spray.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor.
	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

Methacrylic acid

2-Dimethylaminoethyl methacrylate

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide

Colophony

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.

Higher doses may have a narcotic effect.

Burns the gastrointestinal tract.

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

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Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119452498-28-xxxx EC No. 201-297-1 CAS 80-62-6	Methyl methacrylate	40 - 50 %	Flam. Liq. 2; H225. Skin Irrit. 2; H315. Skin Sens. 1; H317. STOT SE 3; H335.
EC No. 201-204-4 CAS 79-41-4	Methacrylic acid	< 10 %	Acute Tox. 4; H302. Acute Tox. 4; H312. Skin Corr. 1A; H314. Eye Dam. 1; H318. STOT SE 3; H335.
EC No. 220-638-5 CAS 2842-44-6	2-(N-methyl-p-toluidino)ethanol	< 3 %	Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335. Aquatic Chronic 2; H411.
EC No. 220-688-8 CAS 2867-47-2	2-Dimethylaminoethyl methacrylate	< 1 %	Acute Tox. 4; H302. Acute Tox. 4; H312. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317.
REACH 01-2120140608-57-xxxx list no. 810-703-1 CAS 1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	< 1 %	Eye Dam. 1; H318. Skin Sens. 1B; H317.
REACH 01-2119480418-32-xxxx EC No. 232-475-7 CAS 8050-09-7	Colophony	< 1 %	Skin Sens. 1; H317.
REACH 01-2119485044-40-xxxx EC No. 231-944-3 CAS 7779-90-0	Zinc phosphate	< 0.3 %	Aquatic Acute 1; H400 (M-factor = 1). Aquatic Chronic 1; H410 (M-factor = 1).
EC No. 231-633-2 CAS 7664-38-2	Phosphoric acid	< 0.1 %	Skin Corr. 1B; H314. Eye Dam. 1; H318.
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.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention. If unconscious place in recovery position and seek medical advice.
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. Seek the attention of an ophthalmologist immediately.

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After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Cough and stomachache.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet or water mist, extinguishing powder, carbon dioxide 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. May form dangerous gases and vapours in case of fire. In case of fire and/or explosion do not breathe fumes. With air, vapours form potentially explosive mixtures, which are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.

Furthermore, there may develop: Halogenated compounds, nitrogen oxides, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Use a breathing apparatus independent of the ambient air (isolated apparatus) and a full protection outfit (suit) against chemicals.

Additional information:

Use fine water spray to cool endangered containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow water used to extinguish fire to enter drains, ground or waterways. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Eliminate all ignition sources if safe to do so. Avoid contact with the substance. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Keep unprotected people away. Cordon off downwind area at risk and warn inhabitants.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Beware of reignition. Thoroughly clean surrounding area. Never return spills in original containers for re-use.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Use explosion-proof equipment and non-sparking tools/utensils.

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

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Do not breathe mist/vapours/spray. Provide adequate ventilation, and local exhaust as needed. 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 immediately all contaminated clothing and wash it before reuse. When handling large quantities, supply emergency spray. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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. Protect from heat and direct sunlight. Keep only in original container. Store containers in upright position.

Hints on joint storage:

Do not store together with oxidizing agents. Keep away from food, drink and animal feedingstuffs.

Further details:

Storage and handling of larger containers (> 10 kg): Take precautionary measures against static discharges. Use only explosion-protected equipment/instruments. Do not weld.

7.3 Specific end use(s)

No information available.

SECTION 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	100 ppm
		Europe: IOELV: TWA	50 ppm
		Ireland: 15 minutes	100 ppm
		Ireland: 8 hours	50 ppm
79-41-4	Methacrylic acid	Ireland: 15 minutes	140 mg/m ³ ; 40 ppm
		Ireland: 8 hours	70 mg/m ³ ; 20 ppm
7664-38-2	Phosphoric acid	Europe: IOELV: STEL	2 mg/m ³
		Europe: IOELV: TWA	1 mg/m ³
		Ireland: 15 minutes	2 mg/m ³
		Ireland: 8 hours	1 mg/m ³
107-98-2	1-Methoxy-2-propanol	Europe: IOELV: STEL	568 mg/m ³ ; 150 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	375 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	568 mg/m ³ ; 150 ppm
		Ireland: 8 hours	375 mg/m ³ ; 100 ppm

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DNEL/DMEL:

Information about Methyl methacrylate:

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, 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, inhalative, systemic: 105 mg/m³

Information about Methacrylic acid:

DNEL workers, long-term, dermal, systemic: 4.25 mg/kg bw/d

DNEL workers, long-term, inhalative, local: 88 mg/m³

DNEL workers, long-term, inhalative, systemic: 29.6 mg/m³

DNEL consumers, long-term, dermal, systemic: 2.55 mg/kg bw/d

DNEL consumers, long-term, inhalative, local: 6.55 mg/m³

DNEL consumers, long-term, inhalative, systemic: 6.3 mg/m³

Information about Colophony:

DNEL long-term, workers, inhalative, systemic: 117 mg/m³

DNEL long-term, workers, dermal: 17 mg/kg bw/d

DNEL long-term, consumers, inhalative: 35 mg/m³

DNEL long-term, consumers, dermal: 10 mg/kg bw/d

DNEL long-term, consumers, oral: 10 mg/kg bw/d

PNEC:

Information about Methyl methacrylate:

PNEC water (freshwater): 0.94 mg/L

PNEC water (marine water): 0.094 mg/L

PNEC water (intermittent release): 0.94 mg/L

PNEC sewage treatment plant: 10 mg/L

PNEC sediment (freshwater): 10.2 mg/kg dw

PNEC sediment (marine water): 0.102 mg/kg dw

PNEC soil: 1.48 mg/kg dw

Information about Methacrylic acid:

PNEC water (freshwater): 0.82 mg/L

PNEC water (marine water): 0.82 mg/L

Information about Colophony:

PNEC water (freshwater): 5 µg/L

PNEC water (marine water): 0.5 µg/L

PNEC sewage treatment plant: 1000 mg/L

PNEC sediment (freshwater): 108 mg/kg dwt

PNEC sediment (marine water): 10.8 mg/kg dwt

PNEC soil: 21.4 mg/kg dwt

8.2 Exposure controls

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

Personal protection equipment

Occupational exposure controls

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 EN 374.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:

Tightly sealed goggles according to EN 166.

Body protection:

Flame retardant, antistatic and chemical resistant protective clothing.

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General protection and hygiene measures:

Do not breathe mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. When handling large quantities, supply emergency spray. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	white
Odour:	strong odour of acryl
Odour threshold:	No data available
Melting point/freezing point:	No data available
initial boiling point and boiling range:	No data available
Flammability:	Highly flammable liquid and vapour.
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	12 °C (c.c.)
Decomposition temperature:	No data available
pH:	Not applicable
Viscosity, kinematic:	at 40 °C: ≥ 40 mm ² /s
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	0.96 - 1.02 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	No data available

SECTION 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.

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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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Protect from direct sunlight.

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

Thermal decomposition: No decomposition when used properly.
No data available

SECTION 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: > 2,000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix: > 2,000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix: > 20 mg/L

Skin corrosion/irritation: Skin Corr. 1A; H314 = Causes severe skin burns and eye damage.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

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.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information: Information about Methyl methacrylate:
LD50 Rat, oral: 7,872 mg/kg
LD50 Rabbit, dermal: > 5,000 mg/kg
LD50 Rat, inhalative (vapour): 78,000 mg/m³/4h

Information about Methacrylic acid:
LD50 Rat, oral: 1,060 mg/kg

Information about Colophony:
LD50 Rat, oral: 7,600 mg/kg

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Symptoms

In case of inhalation: Cough.
In case of ingestion: Stomachache
After contact with skin: skin irritations, redness, pain
After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Information about Methyl methacrylate:

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 130 mg/L/96h

Information about Methacrylic acid:

Daphnia toxicity:

NOEC Daphnia magna (Big water flea): 53 mg/L/21d

Information about Colophony:

Daphnia toxicity:

EC50: 911 mg/L/48h

Fish toxicity:

LC50: > 100 mg/L/96h

Information about Zinc phosphate:

Algae toxicity:

EC50 Pseudokirchneriella subcapitata (green algae): 0.041 mg/L/72h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 0.095 mg/L

Fish toxicity:

LC50 Cottus bairdii: 0.435 mg/L

12.2 Persistence and degradability

Further details:

Biodegradability:

Information about Methacrylic acid: 86 %/28d. Readily degradable.

Information about Colophony: 64 %/28d. 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

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

AOX reference:

The product contains organically bound halogen. Thus it may add to the AOX value.

General information:

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

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SECTION 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
MFSU = manufacture, formulation, supply and use
* = 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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: UN 2924

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: UN 2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl methacrylate, Methacrylic acid)

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: FC
IMDG, IATA-DGR: Class 3, Subrisk 8

14.4 Packing group

ADR/RID, IMDG, IATA-DGR: II

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 338, UN number UN 2924
Hazard label: 3+8
Special Provisions: 274
Limited quantities: 1 L
EQ: E2
Package - Instructions: P001 IBC02
Special provisions for packing together: MP19
Portable tanks - Instructions: T11
Portable tanks - Special Provisions: TP2 TP27
Tank coding: L4BH
Tunnel restriction code: D/E



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Sea transport (IMDG)

EmS:	F-E, S-C
Special Provisions:	274
Limited quantities:	1 L
Excepted quantities:	E2
Package - Instructions:	P001
Package - Provisions:	-
IBC - Instructions:	IBC02
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T11
Tank instructions - Provisions:	TP2, TP27
Stowage and handling:	Category B. SW2
Properties and observations:	Causes burns to skin, eyes and mucous membranes.
Segregation group:	none

Air transport (IATA)

Hazard label:	Flamm. liquid & Corrosive
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y340 - Max. Net Qty/Pkg. 0.5 L
Passenger and Cargo Aircraft:	Pack.Instr. 352 - Max. Net Qty/Pkg. 1 L
Cargo Aircraft only:	Pack.Instr. 363 - Max. Net Qty/Pkg. 5 L
Special Provisions:	A3
Emergency Response Guide-Code (ERG):	3CH

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - EC member states

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances
[Seveso-III-Directive]

Physical hazards: Code P5c, Quantity threshold 5 000 000 kg / 50 000 000 kg

Use restriction according to REACH annex XVII, no.: 3, 40, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

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SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

- H225 = Highly flammable liquid and vapour.
- H226 = Flammable liquid and vapour.
- H302 = Harmful if swallowed.
- 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.
- H318 = Causes serious eye damage.
- H319 = Causes serious eye irritation.
- H335 = May cause respiratory irritation.
- H336 = May cause drowsiness or dizziness.
- 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.

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Abbreviations and acronyms:

- 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
- AOX: Adsorbable Organic Halogens
- AS/NZS: Australian Standards/New Zealand Standards
- 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
- 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
- MFSU: Manufacture, formulation, supply and use
- NOEC: No Observed Effect Concentration
- 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
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- 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

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Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.