



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

1.1 Product identifier

Trade name: Power Bibond, Topfzeit 3 Minuten, Harz
This safety data sheet pertains to the following products:
98533: Display Bibond, 24 ml, 12 Stück, Harz
98550: Power Bibond, Topfzeit 3 Minuten, 50 ml, Harz
98625 Power Bibond, Topfzeit 3 Minuten, 24 ml, SB-Karte, Harz

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

General use: Resin for 2 component adhesive

1.3 Details of the supplier of the safety data sheet

Company name: PETEC Verbindungstechnik GmbH
Street/POB-No.: Wüstenbuch 26
Postal Code, city: 96132 Schlüsselfeld
Germany
WWW: www.petec.de
E-mail: info@petec.de
Telephone: +49 (0)9555-80994-0
Telefax: +49 (0)9555-80994-25
Dept. responsible for information:
Telephone: +49 (0)9555-80994-0, E-mail: info@petec.de

1.4 Emergency telephone number

+49 (0)89 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



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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.

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 vapours.
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.
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, Maleic acid, 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.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable



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3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119452498-28-xxxx EC No. 201-297-1 CAS 80-62-6	Methyl methacrylate	50 - 75 %	Flam. Liq. 2; H225. Skin Irrit. 2; H315. Skin Sens. 1; H317. STOT SE 3; H335.
REACH 01-2119463884-26-xxxx EC No. 201-204-4 CAS 79-41-4	Methacrylic acid	< 10 %	Acute Tox. 4; H302. Acute Tox. 3; H311. Acute Tox. 4; H332. Skin Corr. 1A; H314. STOT SE 3; H335.
REACH 01-2119488705-25-xxxx EC No. 203-742-5 CAS 110-16-7	Maleic acid	< 3 %	Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. STOT SE 3; H335.
REACH 01-2119480418-32-xxxx EC No. 232-475-7 CAS 8050-09-7	Colophony	< 3 %	Skin Sens. 1; H317.
REACH 01-2119565113-46-xxxx EC No. 204-881-4 CAS 128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene	< 1 %	Aquatic Acute 1; H400. Aquatic Chronic 1; H410.
EC No. 201-254-7 CAS 80-15-9	Cumene hydroperoxide	< 1 %	Org. Perox. EF; H242. Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 3; H331. Skin Corr. 1B; H314. STOT RE 2; H373. Aquatic Chronic 2; H411.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Take off immediately all contaminated clothing. If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!
In case of inhalation:	Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Immediately get medical attention.
Following skin contact:	Wash with plenty of water/soap. Immediately get medical attention. Take off contaminated clothing and wash it before reuse.
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 seek the immediate attention of an ophthalmologist.
After swallowing:	Do not induce vomiting. Rinse mouth with water. Drink large quantities of water. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. Burns the gastrointestinal tract. May cause an allergic skin reaction. May cause respiratory irritation.

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:

Foam, Extinguishing powder, carbon dioxide, water mist

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. 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.

Hazardous vapours may form during fires. In case of fire may be liberated: 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. In case of fire and/or explosion do not breathe fumes.

Additional information:

Hazchem-Code: •3YE

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Eliminate all ignition sources if safe to do so. If possible, eliminate leakage. Avoid contact with skin and eyes.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Use a breathing protection against vapours/aerosol. Do not breathe vapours.

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, 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.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

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: Provide for good room ventilation, suctioning/venting. Do not breathe vapours. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.
Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands before breaks and after work.
When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.
Use only explosion-protected equipment/instruments. Do not weld.
In partially filled containers explosive mixtures may form.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position. Explosion protection required.
Handle empty containers with care. Incineration may cause explosion.

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.

7.3 Specific end use(s)

No information available.



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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
		Great Britain: WEL-STEEL	416 mg/m ³ ; 100 ppm
		Great Britain: WEL-TWA	208 mg/m ³ ; 50 ppm
		Ireland: 15 minutes	100 ppm
		Ireland: 8 hours	50 ppm
79-41-4	Methacrylic acid	Great Britain: WEL-STEEL	143 mg/m ³ ; 40 ppm
		Great Britain: WEL-TWA	72 mg/m ³ ; 20 ppm
		Ireland: 15 minutes	140 mg/m ³ ; 40 ppm
		Ireland: 8 hours	70 mg/m ³ ; 20 ppm
8050-09-7	Colophony	Great Britain: WEL-STEEL	0.15 mg/m ³
		Great Britain: WEL-TWA	0.05 mg/m ³
		Ireland: 15 minutes	0.15 mg/m ³ (Sen)
		Ireland: 8 hours	0.05 mg/m ³ (Sen)
128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene	Great Britain: WEL-TWA	10 mg/m ³
		Ireland: 8 hours	10 mg/m ³



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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
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 Methacrylic acid:

DNEL long-term, workers, inhalative, local: 88 mg/m³
DNEL long-term, workers, inhalative, systemic: 29.6 mg/m³
DNEL long-term, workers, dermal, systemic: 4.25 mg/kg bw/d
DNEL long-term, consumers, inhalative, local: 6.55 mg/m³
DNEL long-term, consumers, inhalative, systemic: 6.3 mg/m³
DNEL long-term, consumers, dermal, systemic: 2.55 mg/kg bw/d

Information about Colophony:

DNEL long-term, workers, inhalative: 176.32 mg/m³
DNEL long-term, workers, dermal: 25 mg/kg bw/d
DNEL long-term, consumers, inhalative: 52.174 mg/m³
DNEL long-term, consumers, dermal: 15 mg/kg bw/d
DNEL long-term, consumers, oral: 15 mg/kg bw/d

Information about 2,6-di-tert-Butyl-p-cresol:

DNEL workers, dermal: 0.5 mg/kg bw/d
DNEL workers, inhalative: 3.5 mg/m³



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 Methacrylic acid:
PNEC water (freshwater): 0.82 mg/L
PNEC water (marine water): 0.82 mg/L

Information about Colophony:
PNEC water (freshwater): 0.005 mg/L
PNEC water (marine water): 0.0005 mg/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

Information about 2,6-di-tert-Butyl-p-cresol:
PNEC water (freshwater): 0.199 µg/L
PNEC water (marine water): 0.0199 µg/L
PNEC sediment: 99.6 µg/L
PNEC soil: 47.69 µg/L

8.2 Exposure controls

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

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.
Glove material: Butyl caoutchouc (butyl rubber)-Layer thickness: 0.7 mm.
Breakthrough time: >60 min.
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.

General protection and hygiene measures:
Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Do not breathe vapour/aerosol. Avoid contact with skin and eyes.
Work place should be equipped with a shower and an eye rinsing apparatus. Take off contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Wash hands before breaks and after work.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid
Odour:	like Acrylate
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	11 °C (c.c.)
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	1 - 1.03 g/mL
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	at 40 °C: $\geq 40 \text{ mm}^2/\text{s}$
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Additional information:	No data available
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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.

10.3 Possibility of hazardous reactions

Reacts with Acids, Alkali (lye), alkali metals, oxidizing agents and peroxides.
Polymerization along with heat production.
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 against 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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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): > 2000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2000 mg/kg.

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

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

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 Methacrylic acid:
LD50 Rat, oral: 1060 mg/kg
LD50 Rabbit, dermal: 500 mg/kg

Information about Maleic acid:
LD50 Rat, oral: 708 mg/kg

Information about Colophony:
LD50 Rat, oral: 7600 mg/kg

Information about 2,6-di-tert-Butyl-p-cresol:
LD50 Rat, oral: 890 mg/kg

Information about Cumene hydroperoxide:
LD50 Rat, oral: 382 mg/kg
LD50 Rat, dermal: 500 mg/kg
LC50 Rat, inhalative: 220 ppm/4h



Symptoms

In case of inhalation:

Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect. Cough.

In case of ingestion: Stomachache

After contact with skin: skin irritations, redness, pain

After eye contact:

Causes burns. Eye contact may cause irritation, redness, tearing or blurry vision. Pain.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Harmful 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 Methacrylic acid:

Algae toxicity: EC50: 45 mg/L/ 96 h

Daphnia toxicity: EC50: > 130 mg/L/ 48 h

Fish toxicity: LC50 acute: 85 mg/L/ 96 h

Daphnia toxicity: Daphnia magna (Big water flea), freshwater, NOEC chronic: 53 mg/L/ 21 d

Information about Maleic acid:

Daphnia toxicity: EC50: 160 mg/L/ 48 h

Fish toxicity: LC50: 106 mg/L/ 96 h

Information about Colophony:

Daphnia toxicity: acute EC50: 911 mg/L/ 48 h

Fish toxicity: LC50: >1000 mg/L/ 96 h

Information about 2,6-di-tert-Butyl-p-cresol:

Daphnia toxicity: Daphnia pulex, freshwater, EC50 acute: 1440 µg/L/ 48 h

12.2 Persistence and degradability

Further details:

Biodegradation:

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 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.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 1133

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1133, Adhesives

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Subrisk-

IATA-DGR: Class 3

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

II

14.5 Environmental hazards

Marine pollutant: no



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14.6 Special precautions for user**Land transport (ADR/RID)**

Warning board: ADR/RID: Kemmler-number 33, UN number UN 1133
Hazard label: 3
Special provisions: 640C
Limited quantities: 5 L
EQ: E2
Contaminated packaging - Instructions: P001
Contaminated packaging - Special provisions: PP1
Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special provisions: TP1 TP8
Tank coding: L1.5BN
Tunnel restriction code: D/E

Sea transport (IMDG)

EmS: F-E, S-D
Special provisions: -
Limited quantities: 5 L
Excepted quantities: E2
Contaminated packaging - Instructions: P001
Contaminated packaging - 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 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available



SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: •3YE
No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word:

Danger

Hazard statements:

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:

P102 Keep out of reach of children.
P260 Do not breathe vapours.
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.
P405 Store locked up.

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.
- H242 = Heating may cause a fire.
- H302 = Harmful if swallowed.
- 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.
- H318 = Causes serious eye damage.
- H319 = Causes serious eye irritation.
- 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.

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Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.