

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

PE-Reiniger

Version number: 2.0
Replaces version of: 2015-12-02 (1)

Revision: 2015-12-02
First version: 30.07.2007

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

1.1 Product identifier

| | |
|-----------------------------|------------------------|
| Trade name | <u>PE-Reiniger</u> |
| Registration number (REACH) | not relevant (mixture) |
| CAS number | not relevant (mixture) |

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

| | |
|--------------------------|----------------|
| Relevant identified uses | Cleaning agent |
|--------------------------|----------------|

1.3 Details of the supplier of the safety data sheet

| | |
|---|---|
| S.A.T. Kunststofftechnik GmbH Brockhäger Straße 51 33330 Gütersloh Germany | Telephone: ++49 (0) 5241 99 555 10 Telefax: ++49 (0) 5241 99 555 01 E-mail: info@sat-k.de |
|---|---|

Website: www.sat-k.de

| | |
|---|-------------------|
| E-mail address of competent person responsible for the SDS | sdb@csb-online.de |
|---|-------------------|

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact S.A.T. Kunststofftechnik GmbH.

1.4 Emergency telephone number

As above or next toxicological information centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Classification acc. to GHS | | | | |
|----------------------------|------------------|----------|---------------------------|------------------|
| Section | Hazard class | Category | Hazard class and category | Hazard statement |
| 2.6 | flammable liquid | 2 | Flam. Liq. 2 | H225 |

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for full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

Signal word danger

Pictograms

GHS02



Hazard statements

H225 Highly flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P303+P361+P353 IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to industrial combustion plant.

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances



not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Hazardous ingredients acc. to GHS | | | | |
|-----------------------------------|---|------|----------------------------|------------|
| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
| Ethylalkohol | CAS No 64-17-5 EC No 200-578-6 Index No 603-002-00-5 | ≥ 90 | Flam. Liq. 2 / H225 | |

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| Hazardous ingredients acc. to GHS | | | | |
|-----------------------------------|---|---------|--|---|
| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
| Methyl ethyl ketone | CAS No 78-93-3 EC No 201-159-0 Index No 606-002-00-3 | 1 - < 5 | Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 |   |

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

Notes for the doctor

none

4.2 Most important symptoms and effects, both acute and delayed

Unconsciousness.

Drowsiness.

Dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Solvent vapours are heavier than air and may spread along floors.

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

self-contained breathing apparatus (EN 133)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Advices on how to clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

6.4 Reference to other sections

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Avoidance of ignition sources.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

Use only in well-ventilated areas.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Vapours may form explosive mixtures with air.

Handling of incompatible substances or mixtures

Keep away from

oxidisers

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not to eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

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7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Explosive atmospheres

Keep container tightly closed and in a well-ventilated place.

Use local and general ventilation.

Keep cool.

Protect from sunlight.

Flammability hazards

Keep away from sources of ignition - No smoking.

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

Take precautionary measures against static discharge.

Ground/bond container and receiving equipment.

Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Control of effects

Protect against external exposure, such as

heat

Ventilation requirements

Provision of sufficient ventilation.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available.

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | |
|--|-----------------------------------|---------|------------|-----------|--------------------------|------------|---------------------------|------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Source |
| EU | ethyl methyl ketone | 78-93-3 | IOELV | 200 | 600 | 300 | 900 | 2000/39/EC |
| GB | butan-2-one (methyl ethyl ketone) | 78-93-3 | WEL | 200 | 600 | 300 | 899 | EH40/2005 |
| GB | ethanol | 64-17-5 | WEL | 1,000 | 1,920 | | | EH40/2005 |

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

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| Biological limit values | | | | | | |
|-------------------------|---------------|---------------------|----------|------------|-----------|-----------|
| Country | Name of agent | Parameter | Notation | Identifier | Value | Source |
| GB | butanone | ethyl methyl ketone | | BMGV | 70 µmol/l | EH40/2005 |

| Relevant DNELs of components of the mixture | | | | | | |
|---|---------|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Ethylalkohol | 64-17-5 | DNEL | 343 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| Ethylalkohol | 64-17-5 | DNEL | 950 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Methyl ethyl ketone | 78-93-3 | DNEL | 1,161 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| Methyl ethyl ketone | 78-93-3 | DNEL | 600 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture | | | | | |
|---|---------|----------|-----------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Environmental compartment | Exposure time |
| Ethylalkohol | 64-17-5 | PNEC | 0.96 mg/l | freshwater | short-term (single instance) |
| Ethylalkohol | 64-17-5 | PNEC | 0.79 mg/l | marine water | short-term (single instance) |
| Ethylalkohol | 64-17-5 | PNEC | 580 mg/l | sewage treatment plant (STP) | short-term (single instance) |
| Ethylalkohol | 64-17-5 | PNEC | 3.6 mg/kg | freshwater sediment | short-term (single instance) |
| Ethylalkohol | 64-17-5 | PNEC | 0.63 mg/kg | soil | short-term (single instance) |
| Ethylalkohol | 64-17-5 | PNEC | 2.75 mg/l | water | continuous |
| Methyl ethyl ketone | 78-93-3 | PNEC | 55.8 mg/l | freshwater | short-term (single instance) |
| Methyl ethyl ketone | 78-93-3 | PNEC | 55.8 mg/l | marine water | short-term (single instance) |
| Methyl ethyl ketone | 78-93-3 | PNEC | 709 mg/l | sewage treatment plant (STP) | short-term (single instance) |
| Methyl ethyl ketone | 78-93-3 | PNEC | 284.7 mg/kg | freshwater sediment | short-term (single instance) |

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| Relevant PNECs of components of the mixture | | | | | |
|---|---------|----------|-----------------|---------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Environmental compartment | Exposure time |
| Methyl ethyl ketone | 78-93-3 | PNEC | 284.7 mg/kg | marine sediment | short-term (single instance) |
| Methyl ethyl ketone | 78-93-3 | PNEC | 1,000 mg/kg | water | short-term (single instance) |
| Methyl ethyl ketone | 78-93-3 | PNEC | 22.5 mg/kg | soil | short-term (single instance) |
| Methyl ethyl ketone | 78-93-3 | PNEC | 55.8 mg/l | water | continuous |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|--------------|
| Physical state | liquid |
| Form | fluid |
| Colour | colourless |
| Odour | like alcohol |

Other safety parameters

| | |
|---|-------------------------------------|
| pH (value) | these information are not available |
| Melting point/freezing point | these information are not available |
| Initial boiling point and boiling range | 78 °C |
| Flash point | 12 °C |
| Evaporation rate | these information are not available |
| Flammability (solid, gas) | not relevant (fluid) |
| Explosive limits | these information are not available |
| Vapour pressure | 105 hPa at 20 °C |
| Density | 0.789 g/cm ³ |
| Vapour density | these information are not available |
| Relative density | these information are not available |
| Solubility(ies) | these information are not available |

Partition coefficient

| | |
|---------------------------|-------------------------------------|
| N-octanol/water (log KOW) | these information are not available |
| Auto-ignition temperature | 363 °C |
| Viscosity | these information are not available |

Dynamic viscosity

| | |
|----------------------|-------------------------------------|
| Explosive properties | these information are not available |
| Oxidising properties | these information are not available |

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9.2 Other information

| | |
|--------------------------|---|
| Solvent content | 100 % |
| Solid content | 0 % |
| Temperature class | T2 (maximum permissible surface temperature on the equipment: 300°C) |

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s).

Risk of ignition.

If heated:

risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity of components of the mixture | | | | | |
|---|---------|-----------------------|----------|----------------|---------|
| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
| Ethylalkohol | 64-17-5 | inhalation: vapour | LC50 | 124.7 mg/l/4h | rat |
| Methyl ethyl ketone | 78-93-3 | inhalation: vapour | LC50 | 10,000 mg/l/4h | rat |
| Methyl ethyl ketone | 78-93-3 | oral | LD50 | 3,300 mg/kg | rat |
| Methyl ethyl ketone | 78-93-3 | dermal | LD50 | 5,000 mg/kg | rabbit |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Aquatic toxicity (acute) of components of the mixture

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|---------|----------|------------------------|--------------------------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Ethylalkohol | 64-17-5 | LC50 | 14.2 ^g /l | fathead minnow (Pimephales promelas) | 96 hours |
| Methyl ethyl ketone | 78-93-3 | LC50 | 2,993 ^{mg} /l | fish | 96 hours |
| Methyl ethyl ketone | 78-93-3 | EC50 | 308 ^{mg} /l | aquatic invertebrates | 48 hours |
| Methyl ethyl ketone | 78-93-3 | ErC50 | 2,029 ^{mg} /l | algae | 96 hours |

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture

| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|---------|----------|------------------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Ethylalkohol | 64-17-5 | LC50 | 9,248 ^{mg} /l | aquatic invertebrates | 2 d |
| Ethylalkohol | 64-17-5 | ErC50 | 675 ^{mg} /l | algae | 4 d |
| Ethylalkohol | 64-17-5 | EC50 | 4,432 ^{mg} /l | algae | 7 d |
| Methyl ethyl ketone | 78-93-3 | LC50 | 1,816 ^{mg} /l | fish | 24 h |
| Methyl ethyl ketone | 78-93-3 | EC50 | >345 ^{mg} /l | aquatic invertebrates | 24 h |
| Methyl ethyl ketone | 78-93-3 | ErC50 | 1,901 ^{mg} /l | algae | 24 h |

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12.2 Persistence and degradability

Degradability of components of the mixture

| Degradability of components of the mixture | | | | | |
|--|---------|------------------|------------------|------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method |
| Ethylalkohol | 64-17-5 | oxygen depletion | 74 % | 5 d | |
| Methyl ethyl ketone | 78-93-3 | oxygen depletion | 98 % | 28 d | |

Biodegradation

The relevant substances of the mixture are readily biodegradable.

Persistence

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

| Bioaccumulative potential of components of the mixture | | | |
|--|---------|-----|---------|
| Name of substance | CAS No | BCF | Log KOW |
| Ethylalkohol | 64-17-5 | | -0.35 |
| Methyl ethyl ketone | 78-93-3 | | 0.3 |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

Remarks

Wassergefährdungsklasse (WGK): 1 (Slightly hazardous to water)

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

| | | |
|------|---|--|
| 14.1 | UN number | 1170 |
| 14.2 | UN proper shipping name | ETHANOL |
| | Hazardous ingredients | Ethanol |
| 14.3 | Transport hazard class(es) | |
| | Class | 3 |
| 14.4 | Packing group | II |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user | |
| | | Provisions for dangerous goods (ADR) should be complied within the premises. |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| | | The cargo is not intended to be carried in bulk. |
| 14.8 | <u>Information for each of the UN Model Regulations</u> | |
| | Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) | |
| | UN number | 1170 |
| | Proper shipping name | UN1170, ETHANOL, mixture, 3, II, (D/E) |
| | Class | 3 |
| | Classification code | F1 |
| | Packing group | II |
| | Danger label(s) | 3 |

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| | |
|-------------------------------|----------|
| Special provisions (SP) | 144, 601 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | D/E |
| Hazard identification No | 33 |

International Maritime Dangerous Goods Code (IMDG)

| | |
|----------------------|--|
| UN number | 1170 |
| Proper shipping name | UN1170, ETHANOL, mixture, 3, II, 12°C c.c. |
| Class | 3 |
| Packing group | II |
| Danger label(s) | 3 |



| | |
|--------------------------|----------|
| Special provisions (SP) | 144 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| EmS | F-E, S-D |
| Stowage category | A |

International Civil Aviation Organization (ICAO-IATA/DGR)

| | |
|----------------------|---------------------------------|
| UN number | 1170 |
| Proper shipping name | UN1170, Ethanol, mixture, 3, II |
| Class | 3 |
| Packing group | II |
| Danger label(s) | 3 |



| | |
|--------------------------|---------------|
| Special provisions (SP) | A3, A58, A180 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |

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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

none of the ingredients are listed

List of substances subject to authorisation (REACH, Annex XIV)

none of the ingredients are listed

Seveso Directive

| 2012/18/EU (Seveso III) | | | |
|-------------------------|---------------------------------------|---|-------|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
| P5c | flammable liquids (cat. 2, 3) | 5,000 50,000 | 51) |

Notation

51) flammable liquids, categories 2 or 3 not covered by P5a and P5b

VOC Deco-Paint Directive 2004/42/EC

| | |
|-------------|-------|
| VOC content | 100 % |
|-------------|-------|

Directive on industrial emissions (VOCs, 2010/75/EU)

| | |
|-------------|-------|
| VOC content | 100 % |
|-------------|-------|

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the ingredients are listed

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Explosives precursors which are subject to restrictions

none of the ingredients are listed

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Indication of changes: Section Xxx

Abbreviations and acronyms

| Abbreviations and acronyms | |
|----------------------------|--|
| Abbr. | Descriptions of used abbreviations |
| 2000/39/EC | Comission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| BCF | BioConcentration Factor |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| DGR | danger |
| DNEL | Derived No-Effect Level |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EH40/2005 | EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EmS | Emergency Schedule |
| Eye Dam. | seriously damaging to the eye |
| Eye Irrit. | irritant to the eye |
| Flam. Liq. | flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |

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| Abbreviations and acronyms | |
|-----------------------------------|---|
| Abbr. | Descriptions of used abbreviations |
| index No | the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| IOELV | indicative occupational exposure limit value |
| log KOW | n-octanol/water |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL | short-term exposure limit |
| STOT SE | specific target organ toxicity - single exposure |
| TWA | time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | very Persistent and very Bioaccumulative |
| WEL | workplace exposure limit |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties.

The classification is based on tested mixture.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| List of relevant phrases (code and full text as stated in chapter 2 and 3) | |
|---|------------------------------------|
| Code | Text |
| H225 | highly flammable liquid and vapour |
| H319 | causes serious eye irritation |

PE-Reiniger

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|------|-----------------------------------|
| H336 | may cause drowsiness or dizziness |

Responsible for the safety data sheet

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Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.