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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 03.07.2015 / 0007
Replacing version dated / version: 07.04.2014 / 0006
Valid from: 03.07.2015
PDF print date: 16.11.2016
2K FOAM OZR 400 ml
Art.: 9086823

**Safety data sheet
according to Regulation (EC) No 1907/2006, Annex II**

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

1.1 Product identifier

2K FOAM OZR 400 ml
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1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Filling, proofing and insulating joints and cavities

Sector of use [SU]:

SU 0 - Other

SU 1 - Agriculture, forestry, fishery

SU19 - Building and construction work

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 1 - Adhesives, sealants

Process category [PROC]:

PROC19 - Manual activities involving hand contact

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet



BTI Befestigungstechnik GmbH & Co. KG, Salzstr. 51, 74653 Ingelfingen, Germany
Phone:+49 7940 141 256, Fax:+49 7940 141 9256
Stefan.Haug@bti.de, www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class | Hazard category | Hazard statement |
|---------------------|------------------------|--|
| Eye Irrit. | 2 | H319-Causes serious eye irritation. |
| STOT SE | 3 | H335-May cause respiratory irritation. |

| | | |
|-------------|---|---|
| Skin Irrit. | 2 | H315-Causes skin irritation. |
| Resp. Sens. | 1 | H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin Sens. | 1 | H317-May cause an allergic skin reaction. |
| STOT RE | 2 | H373-May cause damage to organs through prolonged or repeated exposure. |
| Carc. | 2 | H351-Suspected of causing cancer. |
| Aerosol | 1 | H222-Extremely flammable aerosol. |
| Aerosol | 1 | H229-Pressurised container: May burst if heated. |

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin reaction. H373-May cause damage to organs through prolonged or repeated exposure. H351-Suspected of causing cancer. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P201-Obtain special instructions before use. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing and eye protection / face protection. P284-Wear respiratory protection.

P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313-IF exposed or concerned: Get medical advice / attention.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

EUH204-Contains isocyanates. May produce an allergic reaction.

Without adequate ventilation, formation of explosive mixtures may be possible.

Formaldehyde, oligomeric reaction products with aniline and phosgene
Ethanediol

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

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SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

| Dimethyl ether | Substance for which an EU exposure limit value applies. |
|--|--|
| Registration number (REACH) | 01-2119472128-37-XXXX |
| Index | 603-019-00-8 |
| EINECS, ELINCS, NLP | 204-065-8 |
| CAS | 115-10-6 |
| content % | 1-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Gas 1, H220 |

| Formaldehyde, oligomeric reaction products with aniline and phosgene | Substance with specific conc. limit(s) acc. to REACH-registration |
|---|---|
| Registration number (REACH) | 01-2119457024-46-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 500-079-6 (NLP) |
| CAS | 32055-14-4 |
| content % | 10-<15 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 |

| Ethanediol | Substance for which an EU exposure limit value applies. |
|--|--|
| Registration number (REACH) | 01-2119456816-28-XXXX |
| Index | 603-027-00-1 |
| EINECS, ELINCS, NLP | 203-473-3 |
| CAS | 107-21-1 |
| content % | 1-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H302 STOT RE 2, H373 |

| Tris(2-chlorisopropyl)phosphate | |
|--|-------------------------------|
| Registration number (REACH) | 01-2119486772-26-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 911-815-4 (REACH-IT List-No.) |
| CAS | (13674-84-5) |
| content % | 1-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H302 |



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For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Call doctor immediately - have Data Sheet available.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Headaches

dizziness

drowsiness

Allergic reaction

In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinction powder

CO₂

Foam

Water jet spray

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Hydrocyanic acid (hydrogen cyanide)

Hydrogen chloride

Danger of bursting (explosion) when heated

5.3 Advice for firefighters

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

Protective respirator with independent air supply.

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling**7.1.1 General recommendations**

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid inhalation, and contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

After mixing it is essential to use within 4 minutes.

If foam has been mixed but not withdrawn, the can may heat up to over 50°C.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Observe special regulations for aerosols!

Observe special storage conditions.

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Do not store with oxidizing agents.
 Under all circumstances prevent penetration into the soil.
 Keep protected from direct sunlight and temperatures over 50°C.
 Store in a well ventilated place.
 Store cool.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| | | | |
|---|--|--|---------------------|
| Ⓒ | Chemical Name | Dimethyl ether | Content %:1- <20 |
| | WEL-TWA: 400 ppm (766 mg/m ³) (WEL), 1000 ppm (1920 mg/m ³) (EU) | WEL-STEL: 500 ppm (958 mg/m ³) (WEL) | --- |
| | Monitoring procedures: - Compur - KITA-123 S (549 129) | | |
| | BMGV: --- | Other information: --- | |
| Ⓒ | Chemical Name | Formaldehyde, oligomeric reaction products with aniline and phosgene | Content %:10-<15 |
| | WEL-TWA: 0,02 mg/m ³ (Isocyanates, all (as -NCO)) | WEL-STEL: 0,07 mg/m ³ (Isocyanates, all (as -NCO)) | --- |
| | Monitoring procedures: --- | | |
| | BMGV: 1 µmol urinary diamine/mol creatinine in urine (Isocyanate, post task) | Other information: Sen (Isocyanates, all (as -NCO)) | |
| Ⓒ | Chemical Name | Ethanediol | Content %:1- <10 |
| | WEL-TWA: 10 mg/m ³ (particulate), 52 mg/m ³ (vapour) (WEL), 20 ppm (52 mg/m ³) (EU) | WEL-STEL: 104 mg/m ³ (vapour) (WEL), 40 ppm (104 mg/m ³) (EU) | --- |
| | Monitoring procedures: - Compur - KITA-232 SA (502 342) - Compur - KITA-232 SB (550 267) - Draeger - Ethylene Glycol 10 (5) (81 01 351) - NIOSH 5523 (Glycols) - 1996 OSHA PV2024 (Ethylene glycol) - 1999 - EU project - BC/CEN/ENTR/000/2002-16 card 11-2 (2004) - Draeger - Alcohol 100/a (CH 29 701) | | |
| | BMGV: --- | Other information: Sk (particulate, vapour) | |
| Ⓒ | Chemical Name | Isobutane | Content %: |
| | WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: --- | --- |
| | Monitoring procedures: - Compur - KITA-113 SB(C) (549 368) | | |
| | BMGV: --- | Other information: --- | |
| Ⓒ | Chemical Name | Propane | Content %: |
| | WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: --- | --- |
| | Monitoring procedures: - Compur - KITA-125 SA (549 954) | | |
| | BMGV: --- | Other information: --- | |



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- Ⓞ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

| Dimethyl ether | | | | | | |
|----------------------------|--|-----------------------------|-------------------|--------------|-------------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,155 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,681 | mg/kg | |
| | Environment - soil | | PNEC | 0,045 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 160 | mg/l | |
| | Environment - marine | | PNEC | 0,016 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 1,549 | mg/l | |
| | Environment - sediment, marine | | PNEC | 0,069 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 471 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 1894 | mg/m ³ | |

| Formaldehyde, oligomeric reaction products with aniline and phosgene | | | | | | |
|---|---|------------------------------|-------------------|--------------|--------------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - marine | | PNEC | 0,1 | mg/l | |
| | Environment - soil | | PNEC | 1 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 1 | mg/l | |
| | Environment - freshwater | | PNEC | 1 | mg/l | |
| Industrial | Human - inhalation | Long term, systemic effects | DNEL | 0,05 | mg/m ³ | |
| Industrial | Human - dermal | Short term, local effects | DNEL | 28,7 | mg/cm ² | |
| Industrial | Human - inhalation | Short term, systemic effects | DNEL | 0,1 | mg/m ³ | |



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| | | | | | | |
|------------|--------------------|------------------------------|------|------|------------|--|
| Industrial | Human - dermal | Short term, systemic effects | DNEL | 50 | mg/kg bw/d | |
| Industrial | Human - inhalation | Long term, local effects | DNEL | 0,05 | mg/m3 | |
| Industrial | Human - inhalation | Short term, local effects | DNEL | 0,1 | mg/m3 | |

| Ethanediol | | | | | | |
|----------------------------|---|-----------------------------|-------------------|--------------|-------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 10 | mg/l | |
| | Environment - marine | | PNEC | 1 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 10 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 199,5 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 20,9 | mg/kg | |
| | Environment - soil | | PNEC | 1,53 | mg/kg | |
| Industrial | Human - inhalation | Long term, local effects | DNEL | 35 | mg/m3 | |
| Industrial | Human - dermal | Long term, systemic effects | DNEL | 106 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 7 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 53 | mg/m3 | |

| Tris(2-chlorisopropyl)phosphate | | | | | | |
|--|---|-----------------------------|-------------------|--------------|--------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - sediment, marine | | PNEC | 1,34 | mg/kg dw | |
| | Environment - freshwater | | PNEC | 0,64 | mg/l | |
| | Environment - soil | | PNEC | 1,7 | mg/kg dw | |
| | Environment - sediment | | PNEC | 13,4 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 7,84 | mg/l | |
| | Environment - marine | | PNEC | 0,064 | mg/l | |
| Industrial | Human - dermal | Long term, systemic effects | DNEL | 2,08 | mg/kg bw/day | |

| | | | | | | |
|------------|--------------------|------------------------------|------|------|-------------------|--|
| Industrial | Human - inhalation | Short term, systemic effects | DNEL | 22,4 | mg/m ³ | |
| Industrial | Human - inhalation | Long term, systemic effects | DNEL | 5,28 | mg/m ³ | |
| Industrial | Human - dermal | Short term, systemic effects | DNEL | 8 | mg/kg bw/day | |

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Protective gloves in butyl rubber (EN 374).

Permeation time (penetration time) in minutes:

> 120

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.



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In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol. Active substance: liquid.

Colour: Not determined

Odour: Characteristic

Odour threshold: Not determined

pH-value: n.a.

Melting point/freezing point: n.a.

Initial boiling point and boiling range: n.a.

Flash point: n.a.

Evaporation rate: n.a.

Flammability (solid, gas): Yes

Lower explosive limit: Not determined

Upper explosive limit: Not determined

Vapour pressure: Not determined

Vapour density (air = 1): n.a.

Density: Not determined

Bulk density: n.a.

Solubility(ies): Not determined

Water solubility: reacts with water

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: n.a.

Decomposition temperature: Not determined

Viscosity: n.a.

Explosive properties: Not determined

Oxidising properties: No

9.2 Other information

Miscibility: Not determined

Fat solubility / solvent: Not determined

Conductivity: Not determined

Surface tension: Not determined

Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

See also section 7.

Oxidizing agents

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

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|---|----------|-------|---------|----------|-------------|---------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | ATE | >2000 | mg/kg | Rat | | calculated value |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | ATE | >5 | mg/l/4h | Rat | | calculated value, Aerosol |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |



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| | | | | | | |
|--------------------|--|--|--|--|--|--|
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |
| Other information: | | | | | | Classification according to calculation procedure. |

| Dimethyl ether | | | | | | |
|---|-----------------|--------------|-------------|-----------------|---|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 164 | mg/l/4h | Rat | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 477 (Genetic Toxicology - Sex-Linked Recessive Lethal Test in Drosophila melanogaster) | Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | | | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEC | 47106 | | Rat | OECD 452 (Chronic Toxicity Studies) | Negative(2a) |
| Symptoms: | | | | | | unconsciousness, headaches, mucous membrane irritation, dizziness, nausea and vomiting. |

| Formaldehyde, oligomeric reaction products with aniline and phosgene | | | | | | |
|---|-----------------|--------------|-------------|-----------------|--------------------|--------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | | |

| | | | | | | |
|---|-----|------|---------|--------|--------------------------------------|--|
| Acute toxicity, by inhalation: | LC0 | 2,24 | mg/l/1h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol |
| Skin corrosion/irritation: | | | | | | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Irritant |
| Respiratory or skin sensitisation: | | | | | | Sensitising (inhalation and skin contact) |
| Carcinogenicity: | | | | | | Limited evidence of a carcinogenic effect. |
| Symptoms: | | | | | | respiratory distress, coughing, mucous membrane irritation |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: | | | | | | Irritation of the respiratory tract |

| Ethanediol | | | | | | |
|------------------------------------|----------|-------|---------|-------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 7712 | mg/kg | Rat | IUCLID Chem. Data Sheet (ESIS) | Does not conform with EU classification. |
| Acute toxicity, by dermal route: | LD50 | 9530 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | >2,5 | mg/l/6h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Slightly irritant |
| Respiratory or skin sensitisation: | | | | Human being | (Patch-Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |

| | | | | | | |
|-----------|--|--|--|--|--|---|
| Symptoms: | | | | | | ataxia, breathing difficulties, unconsciousness, cramps, fatigue |
|-----------|--|--|--|--|--|---|

| Tris(2-chlorisopropyl)phosphate | | | | | | |
|---|-----------------|----------------|---------------|-----------------|--|-----------------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >500- <2000 | mg/kg | Rat | Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | >7 | mg/l/4h | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 4,6 | mg/l/4h | Rat | | Mist |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin sensitisation: | | | | | | Not sensitising |
| Germ cell mutagenicity: | | | | | (Ames-Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | in vivo | Negative |
| Carcinogenicity: | | | | | | No indications of such an effect. |
| Carcinogenicity: | LOAEL | 52 | mg/kg bw/d | | | |
| Reproductive toxicity: | LOAEL | 99 | mg/kg/ d | | | |
| Reproductive toxicity (Developmental toxicity): | NOEL | 571 | mg/kg bw/d | Rat | | |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | No |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOEL | >20 | ppm | Rat | | 13w |
| Aspiration hazard: | | | | | | Not to be expected |
| Symptoms: | | | | | | ataxia, cramps |

| Isobutane | | | | | | |
|--------------------------------|-----------------|--------------|-------------|-----------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Symptoms: | | | | | | unconsciousness, frostbite, headaches, cramps, dizziness, nausea and vomiting. |

| Propane | | | | | | |
|---|-----------------|--------------|-------------|-----------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | NOAEC | 21,641 | mg/l | | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test) | |
| Symptoms: | | | | | | breathing difficulties, unconsciousness, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |



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SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

| 2K FOAM OZR 400 ml Art.: 9086823 | | | | | | | |
|--|----------|------|-------|------|----------|-------------|--------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and degradability: | | | | | | | n.d.a. |
| 12.3. Bioaccumulative potential: | | | | | | | Not to be expected |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| 12.6. Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | n.d.a. |

| Dimethyl ether | | | | | | | |
|--------------------------------------|----------|------|-------|------|---------------------|--|---------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 2695 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 3082 | mg/l | Salmo gairdneri | | |
| 12.1. Toxicity to fish: | LC50 | 96h | >4000 | mg/l | Poecilia reticulata | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >4000 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC0 | 96h | 154,9 | mg/l | Chlorella vulgaris | QSAR | |
| 12.2. Persistence and degradability: | | 28d | 5 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Not readily biodegradable |



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|--|-----------|--|-------|-----------|--------------------|--|---|
| 12.3. Bioaccumulative potential: | Log Pow | | -0,07 | | | | Bioaccumulation is unlikely (LogPow < 1). 25°C (pH 7) |
| 12.4. Mobility in soil: | H (Henry) | | 518,6 | Pa*m3/mol | | | No adsorption in soil. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | | >1600 | mg/l | Pseudomonas putida | | |
| Water solubility: | | | 45,60 | mg/l | | | 25°C |

| Formaldehyde, oligomeric reaction products with aniline and phosgene | | | | | | | |
|--|-----------|------|-------|------|-------------------------|---|----------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 24h | >1000 | mg/l | Daphnia magna | | Analogous conclusion |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 1640 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | Analogous conclusion |
| 12.1. Toxicity to algae: | EC50 | 72h | 1,5 | mg/l | | OECD 201 (Alga, Growth Inhibition Test) | |



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|--|---------|-----|-------|-------|------------------|--|--|
| 12.2. Persistence and degradability: | | 28d | 0 | % | | OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) | With water at the interface, transforms slowly with formation of CO ₂ into a firm, insoluble reaction product with a high melting point (polycarbamide)., According to experience available to date, polycarbamide is inert and non-degradable. |
| 12.3. Bioaccumulative potential: | Log Pow | | 5,22 | | | | A notable biological accumulation potential has to be expected (LogPow > 3). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 3h | >100 | mg/l | activated sludge | | |
| Toxicity to annelids: | EC50 | 14d | >1000 | mg/kg | Eisenia foetida | | |

| Ethanediol | | | | | | | |
|----------------------------|-----------------|-------------|--------------|-------------|---------------------|-----------------------------------|--------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >1000 0 | mg/l | Pimephales promelas | IUCLID Chem. Data Sheet (ESIS) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 41100 | mg/l | Daphnia magna | | |

| | | | | | | | |
|--------------------------------------|---------|-------|-----------|------|---------------------------------|--|-----------------------|
| 12.1. Toxicity to algae: | EC50 | 96h | 6500-7500 | mg/l | Pseudokirchneriella subcapitata | | |
| 12.1. Toxicity to algae: | IC5 | 7d | > 10000 | mg/l | Scenedesmus quadricauda | | |
| 12.2. Persistence and degradability: | | 28d | 90-100 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -1,36 | | | | Not to be expected |
| Toxicity to bacteria: | EC20 | 30min | >10000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |

| Tris(2-chlorisopropyl)phosphate | | | | | | | |
|--|-----------------|-------------|--------------|-------------|---------------------------------|---|--------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 56,2 | mg/l | | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 51 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 54,2 | mg/l | Brachydanio rerio | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 131 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 131 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | | 32 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 131 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | | 32 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 32 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | 82 | mg/l | | | freshwater |
| 12.1. Toxicity to algae: | | 72h | 82 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |

| | | | | | | | |
|--|---------|-----|-------------|---|-----------------|--|---|
| 12.2. Persistence and degradability: | | 28d | 14 | % | | | Not readily biodegradable |
| 12.2. Persistence and degradability: | | | | | | | Not readily biodegradable |
| 12.2. Persistence and degradability: | | | | | | | Not readily biodegradable |
| 12.2. Persistence and degradability: | | | | | | | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -2,68 | | | | |
| 12.3. Bioaccumulative potential: | BCF | | 0,8- <14 | | | | |
| 12.3. Bioaccumulative potential: | BCF | 42d | 0,8- 4,6 | | Cyprinus caprio | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.3. Bioaccumulative potential: | BCF | | 0,8- <14 | | | | |
| 12.3. Bioaccumulative potential: | Log Pow | | -2,68 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

Propane

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|------|-------|------|----------|-------------|---|
| 12.3. Bioaccumulative potential: | Log Pow | | 2,28 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |

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| | | | | | | | |
|--|--|--|--|--|--|--|--|
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
|--|--|--|--|--|--|--|--|

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

08 05 01 waste isocyanates

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Do not perforate, cut up or weld uncleaned container.

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

14.1. UN number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

Classification code: 5F

LQ (ADR 2015): 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

EmS: F-D, S-U

Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)



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14.2. UN proper shipping name:
 Aerosols, flammable
 14.3. Transport hazard class(es): 2.1
 14.4. Packing group: -
 14.5. Environmental hazards: Not applicable



14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.
 Minimum amount regulations have not been taken into account.
 Danger code and packing code on request.
 Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:
 Regulation (EC) No 1907/2006, Annex XVII
 Formaldehyde, oligomeric reaction products with aniline and phosgene
 Comply with trade association/occupational health regulations.
 Directive 2010/75/EU (VOC): < 19 %

REGULATION (EC) No 648/2004

n.a.

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.
 Observe youth employment law (German regulation).
 Observe law on protection of expectant mothers (German regulation).

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 1 - 16

These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials is required.
 Employee training in handling dangerous goods is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|--|
| Eye Irrit. 2, H319 | Classification according to calculation procedure. |

| | |
|---------------------|--|
| STOT SE 3, H335 | Classification according to calculation procedure. |
| Skin Irrit. 2, H315 | Classification according to calculation procedure. |
| Resp. Sens. 1, H334 | Classification according to calculation procedure. |
| Skin Sens. 1, H317 | Classification according to calculation procedure. |
| STOT RE 2, H373 | Classification according to calculation procedure. |
| Carc. 2, H351 | Classification according to calculation procedure. |
| Aerosol 1, H222 | Classification based on test data. |
| Aerosol 1, H229 | Classification based on test data. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H220 Extremely flammable gas.

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation

Resp. Sens. — Respiratory sensitization

Skin Sens. — Skin sensitization

STOT RE — Specific target organ toxicity - repeated exposure

Carc. — Carcinogenicity

Aerosol — Aerosols

Flam. Gas — Flammable gases (including chemically unstable gases)

Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - oral

Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEA European Economic Area

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)



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IC Inhibitory concentration
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
LC lethal concentration
LC50 lethal concentration 50 percent kill
LCLo lowest published lethal concentration
LD Lethal Dose of a chemical
LD50 Lethal Dose, 50% kill
LDLo Lethal Dose Low
LOAEL Lowest Observed Adverse Effect Level
LOEC Lowest Observed Effect Concentration
LOEL Lowest Observed Effect Level
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute of Occupational Safety and Health (United States of America)
NOAEC No Observed Adverse Effective Concentration
NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
NOEL No Observed Effect Level
ODP Ozone Depletion Potential
OECD Organisation for Economic Co-operation and Development
org. organic
PAH polycyclic aromatic hydrocarbon
PBT persistent, bioaccumulative and toxic
PC Chemical product category
PE Polyethylene
PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential
ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel. Telephone
ThOD Theoretical oxygen demand
TOC Total organic carbon



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TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.