

(GB)

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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 11.09.2019 / 0012
 Replacing version dated / version: 29.03.2019 / 0011
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 COSMO PU-100.110
 COSMO PU-100.112

(COSMOPUR K1)

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

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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:

Adhesive
 Sector of use [SU]:
 SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

(GB)
 Weiss Chemie + Technik GmbH & Co.KG, Hansastrasse 2, 35708 Haiger, Germany
 Phone: +49(0)2773/815-0, Fax:---
 msds@weiss-chemie.de, www.weiss-chemie.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 (WIC)

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. |
| | | H317-May cause an allergic skin reaction. |
| Skin Sens. | 1 | H351-Suspected of causing cancer. |
| Carc. | 2 | H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system). |
| STOT RE | 2 | |

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. H351-Suspected of causing cancer. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing / eye protection / face protection. P284-Wear respiratory protection.

P302+P352-IF ON SKIN: Wash with plenty of water / soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention.

EUH204-Contains isocyanates. May produce an allergic reaction.

Dibutyltin dilaurate
 4,4'-methylenediphenyl diisocyanate
 Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
 Methylenediphenyl diisocyanate, modified

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 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

| Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | --- |
|--|--|
| Registration number (REACH) | 01-2119457015-45-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 905-806-4 (REACH-IT List-No.) |
| CAS | --- |
| content % | 5-<15 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (respiratory system) (as inhalation) |

| Methylenediphenyl diisocyanate, modified | --- |
|---|--|
| Registration number (REACH) | 01-2119457013-49-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 500-040-3 (NLP) |
| CAS | 25686-28-6 |
| content % | 5-<15 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (respiratory system) (as inhalation) |

| 4,4'-methylenediphenyl diisocyanate | --- |
|---|--|
| Registration number (REACH) | 01-2119457014-47-XXXX |
| Index | 615-005-00-9 |
| EINECS, ELINCS, NLP | 202-966-0 |
| CAS | 101-68-8 |
| content % | 1-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) |

| Propylene carbonate | --- |
|---|-----------------------|
| Registration number (REACH) | 01-2119537232-48-XXXX |
| Index | 607-194-00-1 |
| EINECS, ELINCS, NLP | 203-572-1 |
| CAS | 108-32-7 |
| content % | 1-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Eye Irrit. 2, H319 |

| Dibutyltin dilaurate | --- |
|---|--|
| Registration number (REACH) | 01-2119496068-27-XXXX |
| Index | 050-030-00-3 |
| EINECS, ELINCS, NLP | 201-039-8 |
| CAS | 77-58-7 |
| content % | 0,1-<0,25 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Muta. 2, H341 Repr. 1B, H360FD Skin Corr. 1C, H314 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Skin Sens. 1, H317 STOT SE 1, H370 STOT RE 1, H372 (immune system) Eye Dam. 1, H318 |

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 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

First-aiders should ensure they are protected!
 Never pour anything into the mouth of an unconscious person!

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.
 Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Wipe off residual product carefully with a soft, dry cloth.
 Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.
 Dab away with polyethylene glycol 400

Eye contact

Remove contact lenses.
 Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Ingestion

Rinse the mouth thoroughly with water.
 Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

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

The following may occur:

Dermatitis (skin inflammation)

Drying of the skin.

Allergic contact eczema

Discoloration of the skin

Irritant to mucosa of the nose and throat

Coughing

Headaches

Effect on the central nervous system

Asthmatic symptoms

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

Respiratory distress

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

4.3 Indication of any immediate medical attention and special treatment needed

In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone.

Pulmonary oedema prophylaxis

Medical supervision necessary due to possibility of delayed reaction.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2

Extinction powder

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

Isocyanates

Hydrocyanic acid (hydrogen cyanide)

Toxic gases

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.

According to size of fire

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.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Allow to stand for a few days in an unclosed container until reaction no longer occurs.

Keep moist.

Do not close packing drum.

CO2 formation in closed tanks causes pressure to rise.

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.

If applicable, suction measures at the workstation or on the processing machine necessary.

Avoid contact with eyes or skin.

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.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Keep protected from direct sunlight and temperatures over 50°C.

Only store at temperatures from to .

Store in a dry place.

7.3 Specific end use(s)

Adhesive

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | Content %:5-<15 |
|--|--|---|
| WEL-TWA: 0.02 mg/m3 (Isocyanates, all (as -NCO)) | WEL-STEL: 0.07 mg/m3 (Isocyanates, all (as -NCO)) | --- |
| Monitoring procedures: --- | | |
| BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine (At the end of the period of exposure) | | Other information: Sen (Isocyanates, all (as -NCO)) |

| Chemical Name | Methylenediphenyl diisocyanate, modified | Content %:5-<15 |
|--|---|------------------------|
| WEL-TWA: 0.02 mg/m3 (Isocyanates, all (as -NCO)) | WEL-STEL: 0.07 mg/m3 (Isocyanates, all (as -NCO)) | --- |
| Monitoring procedures: MDHS 25/3 (Organic isocyanates in air – Laboratory method using sampling either onto 2-(1-methoxyphenyl)piperazine coated glass fibre filters followed by solvent desorption or into impingers and analysis using high performance liquid chromatography) - 1999 ISO 16702 (Workplace air quality – determination of total isocyanate groups in air using 2-(1-methoxyphenyl)piperazine and liquid chromatography) - 2001 | | |
| BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine (At the end of the period of exposure) | | Other information: --- |

| Chemical Name | 4,4'-methylenediphenyl diisocyanate | Content %:1-<10 |
|---|---|---|
| WEL-TWA: 0.02 mg/m3 (Isocyanates, all (as -NCO)) | WEL-STEL: 0.07 mg/m3 (Isocyanates, all (as -NCO)) | --- |
| Monitoring procedures: ISO 16702 (Workplace air quality – determination of total isocyanate groups in air using 2-(1-methoxyphenyl)piperazine and liquid chromatography) - 2001 MDHS 25/3 (Organic isocyanates in air – Laboratory method using sampling either onto 2-(1-methoxyphenyl)piperazine coated glass fibre filters followed by solvent desorption or into impingers and analysis using high performance liquid chromatography) - 1999 - EU project BC/CEN/ENTR/000/2002-16 card 7-4 (2004) | | |
| BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine (At the end of the period of exposure) | | Other information: Sen (Isocyanates, all (as -NCO)) |

| Chemical Name | Dibutyltin dilaurate | Content %:0,1-<0,25 |
|--|---|---|
| WEL-TWA: 0.1 mg/m3 (Sn) (tin compounds, organic) | WEL-STEL: 0.2 mg/m3 (Sn) (tin compounds, organic) | --- |
| Monitoring procedures: --- | | |
| BMGV: --- | | Other information: Sk (Sn) (tin compounds, organic) |

| Chemical Name | Silica, amorphous | Content %: |
|--|-------------------|------------------------|
| WEL-TWA: 6 mg/m3 (total inh. dust), 2.4 mg/m3 (resp. dust) | WEL-STEL: --- | --- |
| Monitoring procedures: --- | | |
| BMGV: --- | | Other information: --- |

| Chemical Name | Calcium carbonate | Content %: |
|---|-------------------|------------------------|
| WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3 (total inhalable dust) | WEL-STEL: --- | --- |
| Monitoring procedures: --- | | |
| BMGV: --- | | Other information: --- |

| Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | | | | | | |
|--|--|------------------|------------|-------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 1 | mg/l | |
| | Environment - marine | | PNEC | 0,1 | mg/l | |
| | Environment - soil | | PNEC | 1 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 1 | mg/l | |

| 4,4'-methylenediphenyl diisocyanate | | | | | | |
|-------------------------------------|---|------------------------------|------------|-------|--------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 1 | mg/l | |
| | Environment - marine | | PNEC | 0,1 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 1 | mg/l | |
| | Environment - soil | | PNEC | 1 | mg/kg dw | |
| | Environment - sporadic (intermittent) release | | PNEC | 10 | mg/l | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 20 | mg/kg bw/day | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 17,2 | mg/cm ² | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 25 | mg/kg bw/day | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 0,05 | mg/m ³ | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 0,05 | mg/m ³ | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 0,025 | mg/m ³ | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,025 | mg/m ³ | |
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 28,7 | mg/cm ² | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 50 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 0,1 | mg/m ³ | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,1 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 0,05 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,05 | mg/m ³ | |

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| Propylene carbonate | | | | | | |
|---------------------|---|-----------------------------|------------|-------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - sporadic (intermittent) release | | PNEC | 9 | mg/l | |
| | Environment - marine | | PNEC | 0,09 | mg/l | |
| | Environment - sediment, marine | | PNEC | 0,08 | mg/l | |
| | Environment - soil | | PNEC | 0,81 | mg/l | |
| | Environment - freshwater | | PNEC | 0,9 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,83 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 740 | mg/l | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 25 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 25 | mg/kg | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 43,5 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 176 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 50 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 20 | mg/m3 | |

| Dibutyltin dilaurate | | | | | | |
|----------------------|--|------------------------------|------------|-------|-----------------------|-----------------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - sediment, freshwater | | PNEC | 0,05 | mg/kg wet weight | |
| | Environment - freshwater | | PNEC | 0,00 | 046 | mg/l |
| | Environment - marine | | PNEC | 0,00 | 004 | mg/l |
| | Environment - sediment, marine | | PNEC | 0,00 | 5 | mg/kg wet weight |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 0,5 | mg/kg body weight/day | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 0,02 | mg/m3 | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 0,01 | mg/kg body weight/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,08 | mg/kg body weight/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,00 | 3 | mg/m3 |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,00 | 2 | mg/kg body weight/day |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 1 | mg/kg body weight/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,07 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,2 | mg/kg body weight/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,01 | mg/m3 | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | 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.

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. BS EN 14042. BS 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 feedstuffs. 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:
Chemical resistant protective gloves (EN 374).
Recommended
Protective nitrile gloves (EN 374).
Minimum layer thickness in mm:
>= 0,35
Permeation time (penetration time) in minutes:
>= 480
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
Protective hand cream recommended.

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

Respiratory protection:
Normally not necessary.
If OES or MEL is exceeded.
Filter A2 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. 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: | Paste, liquid. |
| Colour: | According to specification |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | Not determined |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| Flash point: | Not determined |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | n.a. |
| Lower explosive limit: | Not determined |
| Upper explosive limit: | Not determined |
| Vapour pressure: | Not determined |
| Vapour density (air = 1): | Not determined |
| Density: | ~1,52 g/ml (20°C) |
| Bulk density: | n.a. |
| Solubility(ies): | Not determined |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | n.a. |
| Decomposition temperature: | Not determined |
| Viscosity: | 67000 - 93000 mPas (25°C) |
| Explosive properties: | Product is not explosive. |
| 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

reacts with water

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Exothermic reaction possible with:

Alcohols
Amines
Bases
Acids
Water
Development of:
Carbon dioxide
CO2 formation in closed tanks causes pressure to rise.
Pressure increase will result in danger of bursting.

10.4 Conditions to avoid

See also section 7.
Protect from humidity.
Polymerisation due to high heat is possible.
T > 260°C

10.5 Incompatible materials

See also section 7.
Acids
Bases

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Amines

Alcohols

Water

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 | Endpo int | Value | Unit | Organis m | Test method | Notes |
|---|-----------|-------|----------|-----------|-------------|----------------------------------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | ATE | >20 | mg/l/ 4h | | | calculated value, Vapours n.d.a. |
| 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. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate

| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
|------------------------------------|-----------|---------|----------|------------------------|---|--|
| Acute toxicity, by oral route: | LD50 | > 10000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | > 9400 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | 0,49 | mg/l/ 4h | Rat | | Mist, Dust, Does not conform with EU classification. |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Yes (inhalation and skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Carc. 2 |

Methylenediphenyl diisocyanate, modified

| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
|------------------------------------|-----------|-------|-------|------------|--|----------------------|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | Analogous conclusion |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Mouse | | Yes (inhalation) |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Yes (skin contact) |

| | | | | | | |
|---|------|-----|-------------------|------------------------|---|----------|
| Germ cell mutagenicity: | | | | Salmonella typhimurium | Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOEC | 0,2 | mg/m ³ | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | |

4,4'-methylenediphenyl diisocyanate

| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
|---|-----------|-------|-------------------|------------------------|--|--|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) | Analogous conclusion |
| Acute toxicity, by dermal route: | LD50 | >9400 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | ATE | 1,5 | mg/l/ 4h | | | Aerosol, Expert judgement. |
| Acute toxicity, by inhalation: | LC50 | 0,368 | mg/l/ 4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol, Does not conform with EU classification. |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2, Analogous conclusion |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant, Analogous conclusion, Does not conform with EU classification. |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Yes (skin contact) |
| Respiratory or skin sensitisation: | | | | Guinea pig | | Yes (inhalation) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 489 (In Vivo Mammalian Alkaline Comet Assay) | Negative |
| Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Limited evidence of a carcinogenic effect, Aerosol, Analogous conclusion |
| Reproductive toxicity: | NOAEL | 4 | mg/m ³ | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Aerosol, Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL | 0,2 | mg/m ³ | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Aerosol, Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE): | LOAEL | 1 | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Aerosol, Analogous conclusion |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: | | | | | | Target organ(s): respiratory system, Irritation of the respiratory tract |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | | | | | | Target organ(s): respiratory system, Positive |

Propylene carbonate

| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
|----------------------------------|-----------|-------|-------|-----------|----------------------------------|-------|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |

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| | | | | | | |
|---|-------|-------|-------------------|-------------|---|---|
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Irritant |
| Respiratory or skin sensitisation: | | | | Human being | | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 482 (Gen. Tox. - DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) | Negative |
| Carcinogenicity: | | | | Mouse | OECD 451 (Carcinogenicity Studies) | Negative |
| Reproductive toxicity: | NOAEL | 1000 | mg/kg | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | breathing difficulties, headaches, gastrointestinal disturbances, dizziness, nausea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOEL | >5000 | mg/kg | | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOEC | 100 | mg/m ³ | | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | Dust, Mist |

| Dibutyltin dilaurate | | | | | | |
|------------------------------------|----------|-------|-------|------------|---|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 2071 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Skin corrosion/irritation: | | | | Rat | | Corrosive |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Risk of serious damage to eyes. |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Sensitising |
| Germ cell mutagenicity: | | | | | | Muta. 2 |
| Aspiration hazard: | | | | | | Negative |
| Symptoms: | | | | | | Negative respiratory distress, diarrhoea, coughing, cramps, mucous membrane irritation, nausea and vomiting. |

| Silica, amorphous | | | | | | |
|--------------------------------|----------|-------|-------|----------|---|--------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |

| Aspiration hazard: | | | | | | No |
|------------------------------------|----------|-------|---------|----------|---|---|
| Calcium carbonate | | | | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 420 (Acute Oral Toxicity - Fixed Dose Procedure) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >3 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant, Mechanical irritation possible. |
| Respiratory or skin sensitisation: | | | | | | No (skin contact) |
| Germ cell mutagenicity: | | | | | in vitro | Negative |
| Carcinogenicity: | | | | | | Negative, administered as Calcium carbonate |
| Reproductive toxicity: | | | | | | Negative, administered as Calcium carbonate |

SECTION 12: Ecological information

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

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|--|----------|------|-------|------|----------|-------------|
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| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method |
| 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: | | | | | | n.d.a. |
| 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. |

| Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate | | | | | | |
|--|------------|------|-------|------|-------------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method |
| 12.2. Persistence and degradability: | | 28d | 0 | % | activated sludge | OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) |
| 12.3. Bioaccumulative potential: | BCF | | 200 | | | Not to be expected |
| 12.1. Toxicity to fish: | LC50 | 96h | > 100 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) |
| 12.1. Toxicity to daphnia: | NOEC/N OEL | 21d | >10 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) |
| 12.1. Toxicity to daphnia: | EC50 | 24h | > 100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) |
| Toxicity to bacteria: | EC50 | 3h | >10 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |

| Methylenediphenyl diisocyanate, modified | | | | | | |
|--|----------|------|-------|------|------------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method |
| 12.2. Persistence and degradability: | | 28d | 0 | % | activated sludge | OECD 302 C (Inherent Biodegradability - Modified MITI Test (II)) |

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|--|-------|-----|---------|------|-------------------------|--|-------------------------------------|
| 12.1. Toxicity to fish: | EC0 | 96h | >10000 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC0 | 24h | >1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | ErC50 | 72h | >=10000 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | | | | | Not biodegradable |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

Calcium carbonate

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|-------|------|-------------------------|--|----------|
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | >14 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| Toxicity to bacteria: | EC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Toxicity to annelids: | | | | | Eisenia foetida | OECD 207 (Earthworm, Acute Toxicity Tests) | Negative |
| Water solubility: | | | 0,014 | g/l | | | |

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
 Recommendation:
 Sewage disposal shall be discouraged.
 Pay attention to local and national official regulations.
 E.g. suitable incineration plant.
 Hardened product:
 E.g. dispose at suitable refuse site.
For contaminated packing material
 Pay attention to local and national official regulations.
 Empty container completely.
 Uncontaminated packaging can be recycled.
 Dispose of packaging that cannot be cleaned in the same manner as the substance.
 15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

14.1. UN number: n.a.
Transport by road/by rail (ADR/RID)
 14.2. UN proper shipping name:
 14.3. Transport hazard class(es): n.a.
 14.4. Packing group: n.a.
 Classification code: n.a.
 LQ: n.a.
 14.5. Environmental hazards: Not applicable
 Tunnel restriction code:
Transport by sea (IMDG-code)
 14.2. UN proper shipping name:
 14.3. Transport hazard class(es): n.a.
 14.4. Packing group: n.a.
 Marine Pollutant: n.a.
 14.5. Environmental hazards: Not applicable
Transport by air (IATA)
 14.2. UN proper shipping name:
 14.3. Transport hazard class(es): n.a.
 14.4. Packing group: n.a.
 14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions:
 Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Regulation (EC) No 1907/2006, Annex XVII
 Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
 Methylenediphenyl diisocyanate, modified
 4,4'-methylenediphenyl diisocyanate
 Dibutyltin dilaurate
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 0 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 8

These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials 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. |
| Carc. 2, H351 | Classification according to calculation procedure. |
| STOT RE 2, H373 | Classification according to calculation procedure. |

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).
 H314 Causes severe skin burns and eye damage.
 H360FD May damage fertility. May damage the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure by inhalation.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 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.
 H341 Suspected of causing genetic defects.
 H351 Suspected of causing cancer.
 H370 Causes damage to organs.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

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
 Carc. — Carcinogenicity
 STOT RE — Specific target organ toxicity - repeated exposure
 Acute Tox. — Acute toxicity - inhalation
 Muta. — Germ cell mutagenicity
 Repr. — Reproductive toxicity
 Skin Corr. — Skin corrosion
 Aquatic Acute — Hazardous to the aquatic environment - acute
 Aquatic Chronic — Hazardous to the aquatic environment - chronic
 STOT SE — Specific target organ toxicity - single exposure
 Eye Dam. — Serious eye damage

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AOX Adsorbable organic halogen compounds
 approx. approximately
 Art., Art. no. Article number
 ASTM ASTM International (American Society for Testing and Materials)
 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)
 BSEF The International Bromine Council
 bw body weight
 CAS Chemical Abstracts Service
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level

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| | |
|-------------------|---|
| dw | dry weight |
| e.g. | for example (abbreviation of Latin 'exempli gratia'), for instance |
| EC | European Community |
| ECHA | European Chemicals Agency |
| 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) |
| etc. | et cetera |
| EU | European Union |
| EVAl | Ethylene-vinyl alcohol copolymer |
| Fax. | Fax number |
| gen. | general |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| GWP | Global warming potential |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IBC (Code) | International Bulk Chemical (Code) |
| IMDG-code | International Maritime Code for Dangerous Goods |
| incl. | including, inclusive |
| IUCLiD | International Uniform Chemical Information Database |
| 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 |
| OECD | Organisation for Economic Co-operation and Development |
| org. | organic |
| PBT | persistent, bioaccumulative and toxic |
| PE | Polyethylene |
| PNEC | Predicted No Effect Concentration |
| ppm | parts per million |
| PVC | Polyvinylchloride |
| 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) |
| SVHC | Substances of Very High Concern |
| Tel. | Telephone |
| UN RTDG | United Nations Recommendations on the Transport of Dangerous Goods |
| VOC | Volatile organic compounds |
| vPvB | very persistent and very bioaccumulative |
| 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.

These statements were made by:

Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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