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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010 Revision date / version: 9.1.1.202 / 000 Replacing version dated / version: 29.07.2021 / 0009 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-205.140

(COSMOFEN VKD 874 - Hardener)

## 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

**COSMO PU-205.140** 

#### (COSMOFEN VKD 874 - Hardener)

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

Relevant identified uses of the substance or mixture:

Uses advised against:

# **1.3 Details of the supplier of the safety data sheet** Weiss Chemie + Technik GmbH & Co. KG

Hansastrasse 2 35708 Haiger Tel: +49 (0) 2773 / 815-0 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) +1 872 5888271 (WIC)

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

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

| mazara ciass | nazaro 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.  |
| Carc.        | 2               | H351-Suspected of causing cancer.  |
| STOT RE      | 2               | H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system). |

#### 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.

As from 24 August 2023 adequate training is required before industrial or professional use

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

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 %). The mixture does not contain any substance with endocrine disrupting properties (< 0.1 %).

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

|  | Mivturas |  |
|--|----------|--|
|  |          |  |

| 3.2 Wixtures  |  |
|---|--|
| Reaction mass of 4,4'-methylenediphenyl diisocyanate  |  |
| and o-(p-isocyanatobenzyl)phenyl isocyanate           |  |
| Registration number (REACH)                           | 01-2119457015-45-XXXX                    |
| Index   |  |
| EINECS, ELINCS, NLP, REACH-IT List-No.                | 905-806-4                                |
| CAS   |  |
| content %   | 5-<25                                    |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 4, H332                       |
| (CLP), M-factors                                      | Skin Irrit. 2, H315                      |
| (- ),   | Eye Irrit. 2, H319                       |
|   | Skin Sens. 1, H317                       |
|   | Resp. Sens. 1, H334                      |
|   | Carc. 2. H351                            |
|   | STOT SE 3, H335                          |
|   | STOT RE 2, H373 (respiratory system) (as |
|   | inhalation)                              |
| Specific Concentration Limits and ATE                 | Skin Irrit. 2, H315: >=5 %               |
| opositio dell'ostitutti alla 7112                     | Eye Irrit. 2, H319: >=5 %                |
|   | Resp. Sens. 1, H334; >=0.1 %             |
|   | STOT SE 3. H335: >=5 %                   |
|   |  |
| Methylenediphenyl diisocyanate, modified              |  |
| Registration number (REACH)                           | 01-2119457013-49-XXXX                    |
| Index   |  |
| EINECS, ELINCS, NLP, REACH-IT List-No.                | 500-040-3                                |
| CAS   | 25686-28-6                               |
| content %   | 5-<25                                    |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 4, H332                       |
| (CLP), M-factors                                      | Skin Irrit. 2, H315                      |
|   | Eye Irrit. 2, H319                       |
|   | Skin Sens. 1, H317                       |
|   | Resp. Sens. 1, H334                      |
|   | 0 0 11054                                |

Carc. 2. H351

STOT SE 2, H373 (respiratory system) (as

|   | inhalation)                               |
|---|---|
| Specific Concentration Limits and ATE                 | Skin Irrit. 2, H315: >=5 %                |
| •   | Eye Irrit. 2, H319: >=5 %                 |
|   | Resp. Sens. 1, H334: >=0,1 %              |
|   | STOT SE 3, H335: >=5 %                    |
|   |   |
| 4,4'-methylenediphenyl diisocyanate                   |   |
| Registration number (REACH)                           | 01-2119457014-47-XXXX                     |
| Index   | 615-005-00-9                              |
| EINECS, ELINCS, NLP, REACH-IT List-No.                | 202-966-0                                 |
| CAS   | 101-68-8                                  |
| content %   | 5-10                                      |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 4, H332                        |
| (CLP), M-factors                                      | 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)                               |
| Specific Concentration Limits and ATE                 | Skin Irrit. 2, H315: >=5 %                |
|   | Eye Irrit. 2, H319: >=5 %                 |
|   | Resp. Sens. 1, H334: >=0,1 %              |
|   | STOT SE 3, H335: >=5 %                    |
|   | ATE (as inhalation, Aerosol): 1,5 mg/l/4h |

| 02 |
|----|
|    |
| -  |

| Benzoyl chloride                                      |                       |
|---|-----------------------|
| Registration number (REACH)                           | 01-2119487138-29-XXXX |
| Index   | 607-012-00-0          |
| EINECS, ELINCS, NLP, REACH-IT List-No.                | 202-710-8             |
| CAS   | 98-88-4               |
| content %   | 0,1-<1                |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 3, H331    |
| (CLP), M-factors                                      | Acute Tox. 4, H302    |
|   | Acute Tox. 4, H312    |
|   | Skin Corr. 1B, H314   |
|   | Eye Dam. 1, H318      |
|   | Skin Sens. 1, H317    |

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



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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.

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

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

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

Water jet spray Foam

#### Unsuitable extinguishing media

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can deve

Oxides of carbon Oxides of nitrogen

Isocyanates
Hydrocyanic acid (hydrogen cyanide)

Toxic gases

Danger of bursting (explosion) when heated

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8. 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 **6.1.1 For non-emergency personnel** In case of spillage or accidental release, wear personnel

ease, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Ensure sufficient ventilation, remove sources or ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

#### See section 8 for suitable protective equipment and material specifications

6.2 Environmental precautions

It 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.

Neep 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.

Avoid inflatation or 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

nent 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 15°C to 25°C.

(GB) Chemical Name Silica, amorphous

Store in a dry place

#### 7.3 Specific end use(s)

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

| GB) Chemical Name  | Reaction i             | mass of 4,4'-met  | nylenediph | enyl diisocyanate a | nd o-(p- | Content |
|--|------------------------|-------------------|------------|---------------------|----------|---------|
|  | isocyanato             | obenzyl)phenyl is | ocyanate   |                     |          | %:5-<25 |
| WEL-TWA: 0,02 mg/m3 (Iso   | cyanates,              | WEL-STEL:         | 0,07 mg/r  | m3 (Isocyanates,    |          |         |
| all (as -NCO)) all (as -NCO))  |                        |                   |            |                     |          |         |
| Monitoring procedures:   | Monitoring procedures: |                   |            |                     |          |         |
| BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen |                        |                   |            |                     |          |         |
| (At the end of the period of exposure) (Isocyanates, all                               |                        |                   | (as -NCO)) |                     |          |         |
|  |                        |                   |            |                     |          |         |
|  |                        |                   |            | (as -NCO))          | 011      |         |

| (GB) Chemical Name   | Methylene        | Methylenediphenyl diisocyanate, modified |                      |               |            |  |
|--|------------------|--|----------------------|---------------|------------|--|
|  |                  |  |                      |               | %:5-<25    |  |
| WEL-TWA: 0,02 mg/m3 (  | Isocyanates,     | WEL-STEL: 0,07 mg/r                      | m3 (Isocyanates,     |               |            |  |
| all (as -NCO))   |                  | all (as -NCO))                           |                      |               |            |  |
| Monitoring procedures:   |                  | ISO 16702 (Workplace air                 | quality - determina  | ation of tota | ıl         |  |
|  |                  | isocyanate groups in air us              | sing 2-(1-methoxypl  | henylpipera   | azine and  |  |
|  | -                | liquid chromatography) - 2               | 007                  |               |            |  |
|  |                  | MDHS 25/4 (Organic isocy                 | yanates in air - Lab | oratory me    | thod using |  |
|  |                  | sampling either onto 2-(1-i              | methoxyphenylpipe    | razine coat   | ted glass  |  |
| fibre filters followed by solvent desorption or into impingers and |                  |  |                      |               |            |  |
|  | -                | analysis using high perform              | mance liquid chrom   | atography)    | - 2015     |  |
| BMGV: 1 µmol isocyanate  | e-derived diamir | ne/mol creatinine in urine               | Other information    | n:            |            |  |

| (At the end of the period of ex | posure)       |                               |                      |              |            |
|---------------------------------|---------------|-------------------------------|----------------------|--------------|------------|
|                                 |               |                               |                      |              |            |
| (GB) Chemical Name              | 4,4'-meth     | ylenediphenyl diisocyanate    |                      |              | Content    |
| $\overline{}$                   |               |                               |                      |              | %:5-10     |
| WEL-TWA: 0,02 mg/m3 (Iso        | ocyanates,    | WEL-STEL: 0,07 mg/i           | m3 (Isocyanates,     |              |            |
| all (as -NCO))                  |               | all (as -NCO))                |                      |              |            |
| Monitoring procedures:          |               | ISO 16702 (Workplace air      | quality - determina  | tion of tota | ıl         |
|                                 |               | isocyanate groups in air us   | sing 2-(1-methoxyph  | nenylpipera  | azine and  |
|                                 | -             | liquid chromatography) - 2    | 007                  | ,            |            |
|                                 |               | MDHS 25/4 (Organic isoc       | vanates in air - Lab | oratory me   | thod usina |
|                                 |               | sampling either onto 2-(1-    |                      |              |            |
|                                 |               | fibre filters followed by sol |                      |              |            |
|                                 |               | analysis using high perform   |                      |              |            |
|                                 | -             | EU project BC/CEN/ENTF        | R/000/2002-16 card   | 7-4 (2004)   |            |
|                                 | -             | NIOSH 5521 (ISOCYANA          |                      |              |            |
|                                 | -             | NIOSH 5522 (ISOCYANA          |                      | ,            |            |
|                                 | -             | NIOSH 5525 (ISOCYANA          |                      | ) - 2003     |            |
|                                 | -             | OSHA 18 (Diisocyanates 2      | 2.4-TDI and MDI) - 1 | 1980         |            |
|                                 | -             | OSHA 47 (Methylene Bisp       |                      |              | 4          |
| BMGV: 1 µmol isocyanate-d       | lerived diami |                               | Other information    |              |            |
| (At the end of the period of ex |               |                               | (Isocyanates, all    | (as -NCO)    | )          |
|                                 | ,             |                               | , ,                  | ,            | ,          |

| 1 |                                  |                |                      | %:      |
|---|----------------------------------|----------------|----------------------|---------|
| 1 | WEL-TWA: 6 mg/m3 (total inh. dus | st), WEL-STEL: |                      |         |
| 1 | 2,4 mg/m3 (resp. dust)           |                |                      |         |
| 1 | Monitoring procedures:           |                |                      |         |
| 1 | BMGV:                            |                | Other information: - |         |
| 1 |                                  | ·              |                      |         |
| ┙ | (GB) Chemical Name Cal           | cium carbonate |                      | Content |
|   |                                  |                |                      | 0/0.    |

| (GB) | Chemical Name              | Calcium c   | arbonate  |                   |    | Content |
|------|----------------------------|-------------|-----------|-------------------|----|---------|
| _    |                            |             |           |                   |    | %:      |
| WE   | L-TWA: 4 mg/m3 (respir     | able dust), | WEL-STEL: |                   |    |         |
| 10 ו | mg/m3 (total inhalable dus | :)          |           |                   |    |         |
| Moi  | nitoring procedures:       | •           |           |                   |    |         |
| BM   | GV:                        |             |           | Other information | 1: |         |
|      |                            |             |           |                   |    |         |

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

| Area of application | Exposure route /       | Effect on        | Descri | Valu | Unit   | Note |
|---------------------|------------------------|------------------|--------|------|--------|------|
|                     | Environmental          | health           | ptor   | е    |        |      |
|                     | compartment            |                  |        |      |        |      |
|                     | Environment -          |                  | PNEC   | 1    | mg/l   |      |
|                     | freshwater             |                  |        |      |        |      |
|                     | Environment -          |                  | PNEC   | 0,1  | mg/l   |      |
|                     | marine                 |                  |        |      |        |      |
|                     | Environment -          |                  | PNEC   | 1    | mg/l   |      |
|                     | sewage treatment       |                  |        |      |        |      |
|                     | plant                  |                  |        |      |        |      |
|                     | Environment - soil     |                  | PNEC   | 1    | mg/kg  |      |
|                     |                        |                  |        |      | dw     |      |
|                     | Environment -          |                  | PNEC   | 10   | mg/l   |      |
|                     | sporadic               |                  |        |      |        |      |
|                     | (intermittent) release |                  |        |      |        |      |
| Consumer            | Human - oral           | Short term,      | DNEL   | 20   | mg/kg  |      |
|                     |                        | systemic effects |        |      | bw/day |      |
| Consumer            | Human - dermal         | Short term,      | DNEL   | 17,2 | mg/cm  |      |
|                     |                        | local effects    |        |      | 2      |      |
| Consumer            | Human - dermal         | Short term,      | DNEL   | 25   | mg/kg  |      |
|                     |                        | systemic effects |        |      | bw/day |      |
| Consumer            | Human - inhalation     | Short term,      | DNEL   | 0,05 | mg/m3  |      |
|                     |                        | local effects    |        |      |        |      |
| Consumer            | Human - inhalation     | Short term,      | DNEL   | 0,05 | mg/m3  |      |
|                     |                        | systemic effects |        |      |        |      |



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| Consumer  | Human - inhalation | Long term,       | DNEL | 0,02 | mg/m3  |  |
|-----------|--------------------|------------------|------|------|--------|--|
|           |                    | local effects    |      | 5    |        |  |
| Consumer  | Human - inhalation | Long term,       | DNEL | 0,02 | mg/m3  |  |
|           |                    | systemic effects |      | 5    |        |  |
| Workers / | Human - dermal     | Short term,      | DNEL | 28,7 | mg/cm  |  |
| employees |                    | local effects    |      |      | 2      |  |
| Workers / | Human - dermal     | Short term,      | DNEL | 50   | mg/kg  |  |
| employees |                    | systemic effects |      |      | bw/day |  |
| Workers / | Human - inhalation | Short term,      | DNEL | 0,1  | mg/m3  |  |
| employees |                    | local effects    |      |      | -      |  |
| Workers / | Human - inhalation | Short term,      | DNEL | 0,1  | mg/m3  |  |
| employees |                    | systemic effects |      |      | -      |  |
| Workers / | Human - inhalation | Long term,       | DNEL | 0,05 | mg/m3  |  |
| employees |                    | local effects    |      |      | -      |  |
| Workers / | Human - inhalation | Long term,       | DNEL | 0,05 | mg/m3  |  |
| employees |                    | systemic effects |      |      |        |  |

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 (Directive 2017/164/EU, Directive 2004/37/CE), (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE), (11) = Inhalable fraction (Directive 2004/37/CE), (12) = Inhalable fraction, Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

reference period).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, (a) = Initiatible instantial (2017/104/EU, 2017/2396/EU), (a) = Respiration instantial (2017/104/EU, 2017/2396/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.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

#### 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:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 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

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

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

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

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state: Pastelike, Liquid Colour: Beige Odour Characteristic

Odour.
Melting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability: There is no information available on this parameter. There is no information available on this parameter.

Combustible.

Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature:

ecomposition temperature:

Kinematic viscosity: Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure: Density and/or relative density:

Relative vapour density: Particle characteristics:

9.2 Other information

Explosives

Oxidising liquids: Evaporation rate:

There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter

n.a.
There is no information available on this parameter.
Mixture reacts with water.
20000-32000 mPas (Dynamic viscosity)

Insoluble

Does not apply to mixtures

There is no information available on this parameter. ~1,63 g/cm3 (20°C)
There is no information available on this parameter.

Does not apply to liquids.

Product is not explosive.

There is no information available on this parameter.

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

# 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

Developement 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.

~ 260°C

#### 10.5 Incompatible materials

Acids

Bases 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 hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification)
COSMO PU-205.140

| Toxicity / effect                            | Endpo<br>int | Value | Unit        | Organis<br>m | Test method | Notes                           |
|--|--------------|-------|-------------|--------------|-------------|---------------------------------|
| Acute toxicity, by oral route:               | ATE          | >2000 | mg/k<br>g   |              |             | calculated value                |
| Acute toxicity, by dermal route:             |              |       |             |              |             | n.d.a.                          |
| Acute toxicity, by inhalation:               | ATE          | >20   | mg/l/<br>4h |              |             | calculated<br>value,<br>Vapours |
| Skin corrosion/irritation:                   |              |       |             |              |             | n.d.a.                          |
| Serious eye damage/irritation:               |              |       |             |              |             | n.d.a.                          |
| Respiratory or skin sensitisation:           |              |       |             |              |             | n.d.a.                          |
| Germ cell<br>mutagenicity:                   |              |       |             |              |             | n.d.a.                          |
| Carcinogenicity:                             |              |       |             |              |             | n.d.a.                          |
| Reproductive toxicity:                       |              |       |             |              |             | n.d.a.                          |
| Specific target organ                        |              |       |             |              |             | n.d.a.                          |
| toxicity - single<br>exposure (STOT-SE):     |              |       |             |              |             |                                 |
| Specific target organ<br>toxicity - repeated |              |       |             |              |             | n.d.a.                          |
| exposure (STOT-RE):                          |              |       |             |              |             |                                 |

| Toxicity / effect                  | Endpo<br>int | Value   | Unit        | Organis<br>m  | Test method  | Notes  |
|------------------------------------|--------------|---------|-------------|---------------|--|--|
| Acute toxicity, by oral route:     | LD50         | > 10000 | mg/k<br>g   | Rat           |  |  |
| Acute toxicity, by dermal route:   | LD50         | > 9400  | mg/k<br>g   | Rabbit        |  |  |
| Acute toxicity, by inhalation:     | LC50         | 0,49    | mg/l/<br>4h | Rat           |  | Mist,<br>Dust:,<br>Does not<br>conform<br>with EU<br>classificatio<br>n. |
| Skin<br>corrosion/irritation:      |              |         |             | Rabbit        | OECD 404<br>(Acute Dermal<br>Irritation/Corrosio<br>n) | Irritant   |
| Respiratory or skin sensitisation: |              |         |             | Guinea<br>pig | OECD 406 (Skin<br>Sensitisation)                       | Yes<br>(inhalation<br>and skin<br>contact)                               |

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



| B)<br>Page 4 of 8<br>Safety data sheet accord  |                                 |                                |                               |   |  |   | Specific target organ  |                            |                    |                       |  |   | May caus   |
|--|---------------------------------|--------------------------------|-------------------------------|---|--|---|--|----------------------------|--------------------|-----------------------|--|---|--|
|  | ding to Regu                    | lation (EC) N                  | o 1907/200                    | 6, Annex II   |  |   | toxicity - single  |                            |                    |                       |  |   | respirator   |
| Revision date / version:   |                                 |                                | 000                           |   |  |   | exposure (STOT-SE),<br>inhalative:   |                            |                    |                       |  |   | irritation.  |
| Replacing version dated<br>/alid from: 01.11.2021  |                                 | ur.2U21 / U                    | 503                           |   |  |   | Specific target organ  | LOAE                       | 1                  | mg/m                  | Rat  | OECD 453  | Aerosol,   |
| PDF print date: 01.11.20   | )21                             |                                |                               |   |  |   | toxicity - repeated exposure (STOT-RE),  | L                          |                    | 3                     |  | (Combined<br>Chronic  | Analogou   |
| COSMO PU-205.140   |                                 |                                |                               |   |  |   | inhalat.:  |                            |                    |                       |  | Toxicity/Carcinog   | conclusion<br>Target   |
| COSMOFEN VKD 874   | - Hardener)                     |                                |                               |   |  |   |  |                            |                    |                       |  | enicity Studies)  | organ(s):  |
| Germ cell  |                                 |                                |                               | Salmonel  | Regulation (EC)  | Negative  |  |                            |                    |                       |  |   | respiratory<br>system  |
| nutagenicity:  |                                 |                                |                               | la<br>typhimuri   | 440/2008<br>B.13/B.14  | -   | Specific target organ<br>toxicity - repeated   | NOAE<br>L                  | 0,2                | mg/m<br>3             | Rat  | OECD 453<br>(Combined   | Aerosol,<br>Analogous  |
|  |                                 |                                |                               | um  | (REVERSE   |   | exposure (STOT-RE),  | L .                        |                    | 3                     |  | Chronic   | conclusion   |
|  |                                 |                                |                               |   | MUTATION   |   | inhalat.:  |                            |                    |                       |  | Toxicity/Carcinog   | Target   |
|  |                                 |                                |                               |   | TEST USING<br>BACTERIA)  |   |  |                            |                    |                       |  | enicity Studies)  | organ(s):<br>respiratory   |
| Germ cell  |                                 |                                |                               | Rat   | OECD 474   | Negative  |  |                            |                    |                       |  |   | system   |
| mutagenicity:  |                                 |                                |                               |   | (Mammalian<br>Erythrocyte  |   | Poly propylene glycol  |                            |                    |                       |  |   |  |
|  |                                 |                                |                               |   | Micronucleus   |   | Toxicity / effect  | Endpo                      | Value              | Unit                  | Organis  | Test method   | Notes  |
| Carcinogenicity:   |                                 |                                |                               | Rat   | Test)<br>OECD 453  | Carc. 2   | Acute toxicity, by oral  | int<br>LD50                | >500 -             | malk                  | m<br>Rat   |   |  |
| Carcinogenicity.   |                                 |                                |                               | Ital  | (Combined  | Carc. 2   | route:   | LDS0                       | <2000              | mg/k<br>g             | Nat  |   |  |
|  |                                 |                                |                               |   | Chronic  |   | Acute toxicity, by   | LD50                       | >3000              | mg/k                  | Rabbit   | OECD 402  | Analogous  |
|  |                                 |                                |                               |   | Toxicity/Carcinog<br>enicity Studies)  |   | dermal route:  |                            |                    | g                     |  | (Acute Dermal<br>Toxicity)  | conclusion   |
| Methylenediphenyl diis   |                                 |                                |                               |   | •  |   | Skin   |                            |                    |                       | Rabbit   | OECD 404  | Not irritant   |
| Nethylenealphenyl alls<br>Toxicity / effect  | Endpo                           | Value                          | Unit                          | Organis   | Test method  | Notes   | corrosion/irritation:  |                            |                    |                       |  | (Acute Dermal<br>Irritation/Corrosio  |  |
|  | int                             |                                |                               | m   |  |   |  |                            |                    |                       |  | n)  |  |
| Acute toxicity, by oral route:   | LD50                            | >2000                          | mg/k                          | Rat   | OECD 401<br>(Acute Oral  | Analogous conclusion  | Serious eye<br>damage/irritation:  |                            |                    |                       | Rabbit   | OECD 405<br>(Acute Eye  | Slightly<br>irritant   |
| oute.  |                                 |                                | g                             |   | Toxicity)  | CONCIUSION  | damage/imation.  |                            |                    |                       |  | Irritation/Corrosio   | IIIIdiii   |
| Skin   |                                 |                                |                               | Rabbit  | OECD 404   | Skin Irrit. 2   | Poonigates: ac -1:   |                            |                    |                       | Mouse  | n)<br>OECD 429 (Skin  | No /al-i-  |
| corrosion/irritation:  |                                 |                                |                               |   | (Acute Dermal<br>Irritation/Corrosio   |   | Respiratory or skin<br>sensitisation:  |                            |                    |                       | Mouse  | OECD 429 (Skin<br>Sensitisation -   | No (skin contact)  |
|  |                                 |                                |                               |   | n)   |   |  |                            |                    |                       |  | Local Lymph   |  |
| Serious eye<br>damage/irritation:  |                                 |                                |                               | Rabbit  | OECD 405<br>(Acute Eye   | Eye Irrit. 2  | Germ cell  |                            |                    |                       |  | Node Assay)<br>OECD 471   | Negative   |
| aamaye/imtatiUH:   |                                 |                                |                               |   | Irritation/Corrosio  |   | mutagenicity:  |                            |                    |                       |  | (Bacterial  | ivegative  |
| Daniel :   |                                 |                                |                               |   | n)   | V-  | _ ,  |                            |                    |                       |  | Reverse   |  |
| Respiratory or skin<br>sensitisation:  |                                 |                                |                               | Mouse   |  | Yes<br>(inhalation)   | Germ cell  |                            |                    | -                     |  | Mutation Test)<br>OECD 473 (In  | Negative,  |
| Respiratory or skin  |                                 |                                |                               | Guinea  | OECD 406 (Skin   | Yes (skin   | mutagenicity:  |                            |                    |                       |  | Vitro   | Analogous  |
| sensitisation:<br>Germ cell  |                                 |                                |                               | pig<br>Salmonel   | Sensitisation) Regulation (EC)   | contact)<br>Negative  |  |                            |                    |                       |  | Mammalian<br>Chromosome   | conclusion   |
| mutagenicity:  |                                 |                                |                               | la  | 440/2008   | Negative  |  |                            |                    |                       |  | Aberration Test)  |  |
|  |                                 |                                |                               | typhimuri   | B.13/B.14  |   | Germ cell  |                            |                    |                       |  | OECD 476 (In  | Negative,  |
|  |                                 |                                |                               | um  | (REVERSE<br>MUTATION   |   | mutagenicity:  |                            |                    |                       |  | Vitro<br>Mammalian Cell   | Analogous<br>conclusion  |
|  |                                 |                                |                               |   | TEST USING   |   |  |                            |                    |                       |  | Gene Mutation   | COTICIASION  |
| Germ cell  |                                 |                                | -                             | Rat   | BACTERIA)<br>OECD 474  | Negative  | Reproductive toxicity  | NOAE                       | 1000               | ma/l·                 | Rat  | Test)<br>OECD 421   | Apolessor  |
| mutagenicity:  |                                 |                                |                               | Rai   | (Mammalian   | Negative  | (Developmental   | L                          | 1000               | mg/k<br>g             | Rai  | (Reproduction/D   | Analogous<br>conclusion  |
| ,  |                                 |                                |                               |   | Erythrocyte  |   | toxicity):   |                            |                    | "                     |  | evelopmental  |  |
|  |                                 |                                |                               |   | Micronucleus<br>Test)  |   |  |                            |                    |                       |  | Toxicity<br>Screening Test)   |  |
| Specific target organ  | NOEC                            | 0,2                            | mg/m                          | Rat   | OECD 453   |   | Reproductive toxicity  | NOAE                       | 1000               | mg/k                  | Rat  | OECD 421  | Analogous  |
| oxicity - repeated   |                                 |                                | 3                             |   | (Combined  |   | (Effects on fertility):  | L                          |                    | g                     |  | (Reproduction/D   | conclusion   |
| exposure (STOT-RE),<br>nhalat.:  |                                 |                                |                               |   | Chronic<br>Toxicity/Carcinog   |   |  |                            |                    |                       |  | evelopmental<br>Toxicity  |  |
|  |                                 |                                |                               |   | enicity Studies)   |   |  |                            |                    |                       |  | Screening Test)   |  |
| 4,4'-methylenedipheny  | l diieocyana                    | ato                            |                               |   |  |   | Symptoms:  |                            |                    |                       |  |   | annoyance<br>cramps,   |
|  |                                 | Value                          | Unit                          | Organis   | Test method  | Notes   |  |                            |                    |                       |  |   | trembling  |
|  | Endpo                           |                                |                               | m<br>Rat  | D 1 :: (EQ)  |   | Specific target organ  | NOAE                       | >=1000             | mg/k<br>g             | Rat  | OECD 407<br>(Repeated Dose  | Analogous<br>conclusion  |
| Toxicity / effect  | Endpo<br>int                    |                                | ma/k                          | nαι   |  | Analogous   | toxicity - repeated  |                            |                    |                       |  |   | Conclusion   |
| Acute toxicity, by oral  | Endpo                           | >2000                          | mg/k<br>g                     |   | Regulation (EC)<br>440/2008 B.1  | Analogous conclusion  | toxicity - repeated exposure (STOT-RE),  | L                          |                    | "                     |  | 28-Day Oral   |  |
| Acute toxicity, by oral  | Endpo<br>int                    |                                | mg/k<br>g                     |   | 440/2008 B.1<br>(ACUTE ORAL  |   |  | L                          |                    |                       |  | Toxicity Study in   |  |
| Coxicity / effect  Acute toxicity, by oral oute:   | Endpo<br>int<br>LD50            | >2000                          | g                             | Rahhit  | 440/2008 B.1<br>(ACUTE ORAL<br>TOXICITY)   | conclusion  | exposure (STOT-RE),  | L                          |                    |                       |  |   |  |
| Acute toxicity, by oral coute:  Acute toxicity, by oral coute:   | Endpo<br>int                    |                                |                               | Rabbit  | 440/2008 B.1<br>(ACUTE ORAL<br>TOXICITY)<br>OECD 402<br>(Acute Dermal  |   | exposure (STOT-RE), oral:  Benzoyl chloride  |                            |                    |                       |  | Toxicity Study in Rodents)  |  |
| Acute toxicity, by oral coute:  Acute toxicity, by oral coute:  Acute toxicity, by dermal route:   | Endpo<br>int<br>LD50            | >2000                          | g<br>mg/k<br>g                |   | 440/2008 B.1<br>(ACUTE ORAL<br>TOXICITY)<br>OECD 402<br>(Acute Dermal<br>Toxicity)   | Analogous conclusion  | exposure (STOT-RE),<br>oral:   | Endpo                      | Value              | Unit                  | Organis<br>m   | Toxicity Study in   | Notes  |
| Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by dermal route:  Acute toxicity, by   | Endpo<br>int<br>LD50            | >2000                          | g<br>mg/k                     | Rabbit  | 440/2008 B.1<br>(ACUTE ORAL<br>TOXICITY)<br>OECD 402<br>(Acute Dermal  | conclusion  | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect   Skin   |                            | Value              |                       | Organis<br>m<br>Rabbit   | Toxicity Study in Rodents)  Test method  OECD 404   | Notes Skin Corr.   |
| Acute toxicity, by oral oute:  Acute toxicity, by dermal route:  Acute toxicity, by  | Endpo<br>int<br>LD50            | >2000                          | g<br>mg/k<br>g<br>mg/l/       |   | 440/2008 B.1<br>(ACUTE ORAL<br>TOXICITY)<br>OECD 402<br>(Acute Dermal<br>Toxicity)<br>OECD 403   | Analogous conclusion  Aerosol, Does not conform   | exposure (STOT-RE), oral:  Benzoyl chloride  Toxicity / effect   | Endpo                      | Value              |                       | m  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal   |  |
| Acute toxicity, by oral oute:  Acute toxicity, by dermal route:  Acute toxicity, by  | Endpo<br>int<br>LD50            | >2000                          | g<br>mg/k<br>g<br>mg/l/       |   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation   | Analogous conclusion  Aerosol, Does not conform with EU   | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect   Skin   | Endpo                      | Value              |                       | m  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio   | Skin Corr.   |
| Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by dermal route:  Acute toxicity, by   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/       |   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation   | Analogous conclusion  Aerosol, Does not conform   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect Skin corrosion/irritation:  Respiratory or skin  | Endpo                      | Value              |                       | m  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin  | Skin Corr.   |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by nhalation:  | Endpo<br>int<br>LD50            | >2000                          | g<br>mg/k<br>g<br>mg/l/<br>4h |   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation   | Analogous conclusion  Aerosol, Does not conform with EU classificatio n. Aerosol,   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation:  | Endpo                      | Value              |                       | m Rabbit Guinea  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)   | Skin Corr.<br>1B<br>Skin Sens.                                     |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h |   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation   | Analogous conclusion  Arosol, Does not conform with EU classificatio n.  Aerosol, Expert  | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect  | Endpo                      | Value              |                       | m Rabbit Guinea pig Salmonel   | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471   | Skin Corr.<br>1B<br>Skin Sens.                                     |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h |   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)   | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit.  | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation:  | Endpo                      | Value              |                       | M Rabbit Guinea pig Salmonel la typhimuri  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse  | Skin Corr.<br>1B<br>Skin Sens.                                     |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal   | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2,   | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect  | Endpo                      | Value              |                       | Rabbit  Guinea pig Salmonel la   | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial   | Skin Corr.<br>1B<br>Skin Sens.                                     |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Skin corrosion/irritation:   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)   | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement.  Skin Irrit.  2, Analogous conclusion  | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect  | Endpo                      |                    | Unit                  | Rabbit  Guinea pig Salmonel la typhimuri um                                      | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)   | Skin Corr.<br>1B<br>Skin Sens.<br>1<br>Negative                    |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Skin corrosion/irritation:  Respiratory or skin  | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat  Rabbit  Guinea   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio   | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes  | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  | Endpo int Endpo            | Value              |                       | Rabbit  Guinea pig Salmonel la typhimuri um                                      | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse  | Skin Corr.<br>1B<br>Skin Sens.                                     |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Skin corrosion/irritation:  Respiratory or skin sensitisation:   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat  Rabbit  Guinea pig                                     | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation)   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect   | Endpo int                  | Value              | Unit                  | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m                           | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)   | Skin Corr.<br>1B<br>Skin Sens.<br>1<br>Negative                    |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Respiratory or skin sensitisation:   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat  Rabbit  Guinea   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation -  | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes  | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect  | Endpo int Endpo            |                    | Unit                  | Rabbit  Guinea pig Salmonel la typhimuri um                                      | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral  | Skin Corr.<br>1B<br>Skin Sens.<br>1<br>Negative                    |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Respiratory or skin sensitisation:  Respiratory or skin sensitisation:   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat  Rabbit  Guinea pig                                     | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation - Local Lymph  | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation)   | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect  | Endpo int                  | Value              | Unit Unit mg/k        | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m                           | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute  | Skin Corr.<br>1B<br>Skin Sens.<br>1<br>Negative                    |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Skin corrosion/irritation:  Respiratory or skin sensitisation:  Respiratory or skin sensitisation:   | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat  Rabbit  Guinea pig                                     | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay)  | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1  | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect  | Endpo int                  | Value              | Unit Unit mg/k        | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m                           | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class  | Skin Corr.<br>1B<br>Skin Sens.<br>1<br>Negative                    |
| Acute toxicity, by dermal route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Skin corrosion/irritation:  Respiratory or skin sensitisation:  Respiratory or skin sensitisation:  Germ cell  | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat Rabbit  Guinea pig Mouse  Salmonel la                   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial  | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2,  Analogous conclusion Yes (inhalation) Skin Sens. 1  Negative, Analogous  | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:   | Endpo int                  | Value              | Unit Unit mg/k        | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m                           | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402   | Skin Corr.<br>1B<br>Skin Sens.<br>1<br>Negative                    |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Skin corrosion/irritation:  Respiratory or skin  | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat  Rabbit  Guinea pig  Mouse  Salmonel la typhimuri       | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 471 (Bacterial Reverse  | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1  Negative,   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:   | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit g/k         | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat                       | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal  | Skin Corr.<br>1B<br>Skin Sens.<br>1<br>Negative                    |
| Acute toxicity, by oral route:  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Acute toxicity, by inhalation:  Acute toxicity, by inhalation:  Skin corrosion/irritation:  Respiratory or skin sensitisation:  Respiratory or skin sensitisation:  Germ cell  | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rat Rabbit  Guinea pig Mouse  Salmonel la                   | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474  | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2,  Analogous conclusion Yes (inhalation) Skin Sens. 1  Negative, Analogous  | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:   | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat                       | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402   | Skin Corr.<br>1B<br>Skin Sens.<br>1<br>Negative                    |
| Acute toxicity, by oral oute:  Acute toxicity, by oral oute:  Acute toxicity, by dermal route:  Acute toxicity, by acute toxicity, acute toxici | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig  Mouse  Salmonel la typhimuri um         | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian   | Analogous conclusion  Aerosol, Does not conform with EU classification.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation)  Negative, Analogous conclusion  | exposure (STOT-RE), oral:    Benzoyl chloride   Toxicity / effect  | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat                       | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) OECD 402 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Toxicity)  | Skin Corr.<br>1B<br>Skin Sens.<br>1 Negative                       |
| Acute toxicity / effect Acute toxicity, by oral oute: Acute toxicity, by Idermal route: Idermal route: Idermal route: Idermal route: Idermal route: Identification: Id | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig  Mouse  Salmonel la typhimuri um         | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte   | Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion  Negative, Analogous conclusion  Negativem   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin   | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat                       | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio   | Skin Corr.<br>1B<br>Skin Sens<br>1<br>Negative                     |
| coxicity / effect  acute toxicity, by oral bute:  acute toxicity, by oral bute:  acute toxicity, by lermal route:  acute toxicity, by landation:  acute tox | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat      | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test)  | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classification.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion  Yes (inhalation) Skin Sens. 1  Negative, Analogous conclusion  Negativem ale   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin   | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat                       | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) OECD 402 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Toxicity)  | Skin Corr. 1B Skin Sens 1 Negative  Notes                          |
| coxicity / effect  coute toxicity, by oral pute:  coute toxicity, by ermal route:  coute toxicity, by ermal route:  coute toxicity, by enalation:  coute to | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig  Mouse  Salmonel la typhimuri um         | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 478 (In  | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion  Yes (inhalation)  Skin Sens. 1  Negative, Analogous conclusion  Negativem   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin corrosion/irritation:   | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat                  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 405 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 404 (Acute Dermal Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 405 (Acute Dermal Irritation/Corrosion)  OECD 405 (Acute Dermal Irritation/Corrosion)  OECD 405 (Acute Dermal Irritation/Corrosion)                          | Skin Corr. 1B Skin Sens 1 Negative  Notes                          |
| coxicity / effect coute toxicity, by oral pute: coute toxicity, by oral pute: coute toxicity, by ermal route: coute toxicity, by shalation: coute toxicity, by shalation: coute toxicity, by shalation: coute toxicity, by shalation: courses or skin ensitisation: cespiratory or skin ensitisation: cespiratory or skin ensitisation: cerm cell cerm cell cerm cell cerm cell cerm cell coute toxicity, by shalation: courses or skin ensitisation: cerm cell  | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat      | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 477 (Mammalian Erythrocyte Micronucleus Test) OECD 488 (In Vivo Mammalian  | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classification.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion  Yes (inhalation) Skin Sens. 1  Negative, Analogous conclusion  Negativem ale   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin corrosion/irritation:  Serious eye  | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat                  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 405 (Acute Eye Irritation/Corrosio irritation/Corrosio irritation/Corrosio irritation/Corrosio irritation/Corrosio irritation/Corrosio irritation/Corrosio | Skin Corr. 1B Skin Sens. 1 Negative  Notes                         |
| coxicity / effect coute toxicity, by oral coute toxicity, by oral coute toxicity, by cout | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat      | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Alkaline Comet Assay)  | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation)  Negative, Analogous conclusion  Negativem ale  | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin corrosion/irritation:  Serious eye  | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat                  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) OECD 402 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 407   | Skin Corr. 1B Skin Sens 1 Negative  Notes                          |
| coxicity / effect coute toxicity, by oral coute toxicity, by oral coute toxicity, by cout | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat      | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Mammalian Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 488 (In Vivo Mammalian Alkaline Comet Assay) OECD 453   | Analogous conclusion  Aerosol, Does not conform with EU classification.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1  Negative, Analogous conclusion Negativem ale   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Skin corrosion/irritation:  Serious eye damage/irritation:   | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat                  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio on)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal Irritation/Corrosio n)  OECD 405 (Acute Eyer Irritation/Corrosio of CD 405 (Acute Eyer Irritation/Corrosio of CD 471 (Bacterial  | Skin Corr. 1B Skin Sens 1 Negative  Notes  Not irritant            |
| coxicity / effect coute toxicity, by oral coute toxicity, by oral coute toxicity, by cout | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat      | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Alkaline Comet Assay)  | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion  Negative, Analogous conclusion  Negative, Analogous conclusion  Negativem ale  Aerosol, Analogous   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin corrosion/irritation:  Serious eye damage/irritation:  Germ cell  Germ cell   | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat                  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 405 (Acute Eye Irritation/Corrosion)  OECD 407 (Bacterial Reverse  | Skin Corr. 1B Skin Sens 1 Negative  Notes  Not irritant            |
| coxicity / effect  coute toxicity, by oral  coute toxicity, by oral  coute toxicity, by ermal route:  coute toxicity, by shalation:  coute toxicity, by sha | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat      | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 471 (Mammalian Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Alkaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog   | Analogous conclusion  Aerosol, Does not conform with EU classification.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1  Negative, Analogous conclusion Negativem ale   | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin corrosion/irritation:  Serious eye damage/irritation:  Germ cell  Germ cell   | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat                  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio on)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal Irritation/Corrosio n)  OECD 405 (Acute Eyer Irritation/Corrosio of CD 405 (Acute Eyer Irritation/Corrosio of CD 471 (Bacterial  | Skin Corr. 1B Skin Sens 1 Negative  Notes  Not irritant            |
| cute toxicity, by oral pute:  cute toxicity, by oral pute:  cute toxicity, by ermal route:  kin prosion/irritation:  despiratory or skin ensitisation:  espiratory or skin ensitisation:  espiratory or skin ensitisation:  erm cell entagenicity:  erem cell entagenicity:  | Endpo int LD50  LD50  LD50  ATE | >2000<br>>9400<br>0,368<br>1,5 | mg/k<br>g<br>mg/l/<br>4h      | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat  Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 477 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Alkaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)                                  | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classificatio n. Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1  Negative, Analogous conclusion Negativem ale  Aerosol, Analogous conclusion Carc. 2                                | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Skin corrosion/irritation:  Serious eye damage/irritation:  Germ cell mutagenicity:  Aspiration hazard:  | Endpo int LD50             | <b>Value</b> >5000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat                  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 406 (Skin Sensitisation)  OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosion)  OECD 405 (Acute Eye Irritation/Corrosion)  OECD 407 (Bacterial Reverse  | Skin Corr. 1B Skin Sens. 1 Negative  Notes  Not irritant Negative  |
| Acute toxicity / effect Acute toxicity, by oral oute: Acute toxicity, by oral oute: Acute toxicity, by Idermal route: Ide | Endpo<br>int<br>LD50            | >2000<br>>9400<br>0,368        | g<br>mg/k<br>g<br>mg/l/<br>4h | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat      | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 471 (Mammalian Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Alkaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog   | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classification.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Negative, Analogous conclusion  Negativem ale  Aerosol, Analogous conclusion, Carc. 2  Aerosol,                                  | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin corrosion/irritation:  Serious eye damage/irritation:  Germ cell mutagenicity:  Aspiration hazard:  Calcium carbonate | Endpo int LD50             | Value >5000 > 2000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat  Rabbit          | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio on)  OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 405 (Acute Eye Irritation/Corrosio n)  OECD 471 (Bacterial Reverse Mutation Test)   | Skin Corr. 1B Skin Sens. 1 Negative  Notes  Not irritant  Negative |
| Acute toxicity, by oral oute:  Acute toxicity, by oral oute:  Acute toxicity, by dermal route:  Acute toxicity, by oral oute:  Acute toxicity, by oral oute:  Acute toxicity, by oral oute:  Acute toxicity, by oral outer out | Endpo int LD50 LD50 LC50 NOAE   | >2000<br>>9400<br>0,368<br>1,5 | mg/k<br>g<br>mg/l/<br>4h      | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat  Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (in Vivo Mammalian Alkaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 414 (Prenatal Developmental | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classificatio n. Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1  Negative, Analogous conclusion Negativem ale  Aerosol, Analogous conclusion Carc. 2                                | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Skin corrosion/irritation:  Serious eye damage/irritation:  Germ cell mutagenicity:  Aspiration hazard:  Calcium carbonate Toxicity / effect                 | Endpo int  LD50  Endpo int | Value >5000 > 2000 | Unit Unit mg/k g Unit | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m Rat  Rat  Rabbit  Rabbit  | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 407 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) OECD 402 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 407 (Bacterial Reverse Mutation Test)   | Skin Corr. 1B Skin Sens. 1 Negative  Notes  Not irritant Negative  |
| Acute toxicity, by oral oute:  Acute toxicity, by oral oute:  Acute toxicity, by dermal route:  Acute toxicity, by nhalation:  Acute toxicity, by nhalation:  Skin corrosion/irritation:  Respiratory or skin sensitisation:  Respiratory or skin sensitisation:  Germ cell mutagenicity:  | Endpo int LD50 LD50 LC50 NOAE   | >2000<br>>9400<br>0,368<br>1,5 | mg/k<br>g<br>mg/l/<br>4h      | Rabbit  Guinea pig Mouse  Salmonel la typhimuri um Rat  Rat | 440/2008 B.1 (ACUTE ORAL TOXICITY) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)  OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 429 (Skin Sensitisation Local Lymph Node Assay) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Alkaline Comet Assay) OECD 483 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 414 (Prenatal         | conclusion  Analogous conclusion  Aerosol, Does not conform with EU classificatio n.  Aerosol, Expert judgement. Skin Irrit. 2, Analogous conclusion  Yes (inhalation)  Negative, Analogous conclusion  Negativem ale  Aerosol, Analogous conclusion, Carc. 2  Aerosol, Analogous conclusion, Carc. 2 | exposure (STOT-RE), oral:  Benzoyl chloride Toxicity / effect  Skin corrosion/irritation:  Respiratory or skin sensitisation: Germ cell mutagenicity:  Silica, amorphous Toxicity / effect  Acute toxicity, by oral route:  Acute toxicity, by dermal route:  Skin corrosion/irritation:  Serious eye damage/irritation:  Germ cell mutagenicity:  Aspiration hazard:  Calcium carbonate | Endpo int LD50             | Value >5000 > 2000 | Unit Unit mg/k g      | Rabbit  Guinea pig Salmonel la typhimuri um  Organis m  Rat  Rat  Rabbit  Rabbit | Toxicity Study in Rodents)  Test method  OECD 404 (Acute Dermal Irritation/Corrosio on)  OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test)  Test method  OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)  OECD 402 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n)  OECD 405 (Acute Eye Irritation/Corrosio n)  OECD 471 (Bacterial Reverse Mutation Test)   | Skin Corr. 1B Skin Sens. 1 Negative  Notes  Not irritant  Negative |



(SB)
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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0010 OECD 302 C (Inherent 28d activated Persistence and sludge degradability Biodegradab Revision date / version: 01.11.20/21 / 0010 Replacing version dated / version: 29.07.2021 / 0009 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-205.140 ility -Modified MITI Test (II)) BCF 12.3. 200 Not to be Bioaccumulative potential: 12.1. Toxicity to (COSMOFEN VKD 874 - Hardener) expected Acute toxicity, by oral LD50 > 5000 Rat LC50 96h Brachydanio OECD 203 mg/k mg/l 100 route: Acute toxicity, by g mg/k rerio (Fish, Acute Toxicity LD50 >2000 OECD 402 dermal route: g (Acute Dermal Test) OFCD 211 12.1. Toxicity to daphnia: NOEC/N Daphnia magna Toxicity) OECD 403 21d >10 mg/l Acute toxicity, by inhalation: LC50 >3 Rat (Daphnia magna (Acute Inhalation Reproductio Toxicity) OECD 404 Rabbit Not irritant Skin n Test) OECD 202 EC50 corrosion/irritation: 12.1. Toxicity to (Acute Dermal 24h mg/l Daphnia 100 (Daphnia sp. Acute Immobilisati Irritation/Corrosio Serious eye damage/irritation: OECD 405 Rabbit Not irritant, Mechanical (Acute Eye Irritation/Corrosio on Test) OECD 209 EC50 Toxicity to 3h irritation >10 mg/l activated possible. No (skin contact) Negative (Activated Sludge, Respiration Inhibition hacteria 0 sludge Respiratory or skin sensitisation: Germ cell in vitro mutagenicity: Carcinogenicity: Test (Carbon Negative, administere d as Caand Ammonium Oxidation)) lactate Negative, Reproductive toxicity: Methylenediphenyl diisocyanate, modified

Toxicity / effect Endpoin Tim Valu administere Unit Organism Notes d as Ca-Test method OECD 302 C (Inherent 280 11.2. Information on other hazards Persistence and sludge COSMO PU-205.140 degradability: Biodegradab ility -Modified (COSMOFEN VKD 874 - Hardener)
Toxicity / effect Endpo MITI Test Value Unit Organis Test method Notes int (II)) OECD 305 BCF 200 Endocrine disrupting Does not (Bioconcentr ation - Flow-Through Fish Test) OECD 203 Bioaccumulative expected properties apply to potential: Mo other Other information: relevant information available on adverse 12.1. Toxicity to LC50 Brachydanio >10 00 mg/l rerio (Fish, Acute Toxicity Test) OECD 211 effects on 12.1. Toxicity to daphnia: NOEC/N OEL Daphnia magna 210 mg/l health (Daphnia magna **SECTION 12: Ecological information** Reproductio n Test) OECD 209 FC50 >10 0 Toxicity to 3h mg/l activated Possibly more information on environmental effects, see Section 2.1 (classification). COSMO PU-205.140 (Activated Sludge, Respiration sludge (COSMOFEN VKD 874 - Hardener)
Toxicity / effect | Endpoin | Tim Inhibition Valu Unit Test Organism (Carbon method and Ammonium 12.1. Toxicity to n.d.a. fish: 12.1. Toxicity to n.d.a Oxidation)) daphnia: 12.1. Toxicity to 4,4'-methylenediphenyl diisocyanate
Toxicity / effect | Endpoin | Tim n.d.a. Valu Unit Organism Test Notes algae: 12.2. With water method According Persistence and at the interface. information: degradability: to transforms slowly with experience available to date, polycarbam ide is inert formation of CO2 into a firm, insoluble reaction and nondegradable .. With product water at the . with a high melting interface, point transforms slowly with formation of CO2 into a firm, (polycarba mide). According experience available to date, polycarbam ide is inert insoluble reaction product with a high melting and nondegradable point (polycarba mide). 12.3. Bioaccumulative 12.4. Mobility in 0,02 3/mol mg/l (Henry) LC50 29 >10 00 potential: 12.4. Mobility in soil: 12.1. Toxicity to Brachydanio OECD 203 Analogous n.d.a. rerio (Fish, Acute conclusion soil: 12.5. Results of n.d.a Toxicity PBT and vPvB assessment 12.6. Endocrine n.d.a. disrupting properties: n.d.a.

adverse effects:



| Safety data sheet a<br>Revision date / vers<br>Replacing version o<br>Valid from: 01.11.2 | sion: 01.11.20<br>dated / versior<br>021 | 21 / 0010 | )             |           |                                |  |   |
|---|--|-----------|---------------|-----------|--------------------------------|--|---|
| PDF print date: 01.11.2021<br>COSMO PU-205.1140   |  |           |               |           |                                |  |   |
| (COSMOFEN VKD   | 874 - Harden                             |           |               |           |                                |  |   |
| 12.2. Persistence and degradability:  |  | 28d       | 0             | %         |                                | OECD 302<br>C (Inherent<br>Biodegradab<br>ility -<br>Modified<br>MITI Test<br>(II))      | Not biodegrada ble, With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide)., According to experience available to date, polycarbamide is inert and nondegradable |
| 12.1. Toxicity to   | EC50                                     | 24h       | >10           | mg/l      | Daphnia                        | OECD 202   | Analogous<br>conclusion   |
| daphnia:  | Nose ::                                  |           | 00            |           | magna                          | (Daphnia<br>sp. Acute<br>Immobilisati<br>on Test)  | conclusion  |
| 12.1. Toxicity to daphnia:  | NOEC/N<br>OEL                            | 21d       | >10           | mg/l      | Daphnia<br>magna               | OECD 202<br>(Daphnia<br>sp. Acute<br>Immobilisati<br>on Test)                            | Analogous<br>conclusion   |
| 12.3.<br>Bioaccumulative<br>potential:  | Log Pow                                  |           | 5,22          |           |                                |  | A notable biological accumulati on potential has to be expected (LogPow >   |
| 12.1. Toxicity to algae:  | ErC50                                    | 72h       | >16<br>40     | mg/l      | Desmodesm<br>us<br>subspicatus | OECD 201<br>(Alga,<br>Growth<br>Inhibition<br>Test)                                      | 3).<br>Analogous<br>conclusion  |
| 12.3.<br>Bioaccumulative<br>potential:  | BCF                                      | 28d       | 200           |           | Cyprinus<br>caprio             | IUCLID<br>Chem. Data<br>Sheet<br>(ESIS)  | Not to be expected  |
| 12.5. Results of<br>PBT and vPvB<br>assessment  |  |           |               |           |                                |  | No PBT<br>substance,<br>No vPvB<br>substance  |
| Other<br>information:   | AOX                                      |           |               |           |                                |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water.   |
| Toxicity to bacteria:   | EC50                                     | 3h        | >10<br>0      | mg/l      | activated<br>sludge            | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous<br>conclusion   |
| Other organisms:  | NOEC/N<br>OEL                            | 14d       | >10<br>00     | mg/k<br>g | Lactuca<br>sativa              | OECD 208<br>(Terrestrial<br>Plants,<br>Growth<br>Test)                                   | Analogous<br>conclusion   |
| Other organisms:  | NOEC/N<br>OEL                            | 14d       | >10<br>00     | mg/k<br>g | Avena sativa                   | OECD 208<br>(Terrestrial<br>Plants,<br>Growth<br>Test)                                   | Analogous<br>conclusion   |
| Toxicity to annelids:   | NOEC/N<br>OEL                            | 14d       | ><br>100<br>0 | mg/k<br>g | Lumbricus<br>terrestris        | OECD 207<br>(Earthworm,<br>Acute<br>Toxicity<br>Tests)                                   | Analogous<br>conclusion   |
| Toxicity to annelids:   | EC50                                     | 14d       | >10<br>00     | mg/k<br>g | Eisenia<br>foetida             | OECD 207<br>(Earthworm,<br>Acute<br>Toxicity   | Analogous<br>conclusion   |

| Toxicity / effect                          | Endpoin | Tim | Valu      | Unit | Organism                       | Test   | Notes                   |
|--|---------|-----|-----------|------|--------------------------------|--|-------------------------|
|  | t       | е   | е         |      |                                | method   |                         |
| 12.1. Toxicity to fish:                    | LC50    | 96h | >10<br>0  |      | Poecilia<br>reticulata         | OECD 203<br>(Fish, Acute<br>Toxicity<br>Test)  |                         |
| 12.1. Toxicity to daphnia:                 | EC50    | 48h | >10<br>0  | mg/l | Daphnia<br>magna               | OEĆD 202<br>(Daphnia<br>sp. Acute<br>Immobilisati<br>on Test)                            |                         |
| 12.1. Toxicity to algae:                   | EC0     | 72h | >10<br>0  | mg/l | Desmodesm<br>us<br>subspicatus | OECD 201<br>(Alga,<br>Growth<br>Inhibition<br>Test)                                      | Analogous<br>conclusion |
| 12.2.<br>Persistence and<br>degradability: |         | 28d | 87        | %    |                                | OECD 301 F (Ready Biodegradab ility - Manometric Respirometr y Test)                     |                         |
| 12.3.<br>Bioaccumulative<br>potential:     | Log Kow |     | 0-1       |      |                                | ,  | calculated<br>value     |
| 12.4. Mobility in soil:                    | Log Koc |     | 0-1       |      |                                |  |                         |
| 12.4. Mobility in soil:                    | Koc     |     | 1-10      |      |                                |  |                         |
| Toxicity to bacteria:                      | EC50    | 3h  | >10<br>00 | mg/l | activated<br>sludge            | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous<br>conclusion |
| Silica amorphous                           |         |     |           |      |                                |  |                         |
| Silica, amorphous<br>Toxicity / effect     | Endpoin | Tim | Valu      | Unit | Organism                       | Test   | Notes                   |

| Silica, amorphous<br>Toxicity / effect         | Endpoin | Tim | Valu            | Unit | Organism                       | Test  | Notes   |
|--|---------|-----|-----------------|------|--------------------------------|---|---|
|  | t       | e   | e               |      | - · g                          | method  |   |
| 12.1. Toxicity to fish:                        | EC0     | 96h | >10<br>000      | mg/l | Brachydanio<br>rerio           | OECD 203<br>(Fish, Acute<br>Toxicity<br>Test)                 |   |
| 12.1. Toxicity to daphnia:                     | EC0     | 24h | >10<br>00       | mg/l | Daphnia<br>magna               | OECD 202<br>(Daphnia<br>sp. Acute<br>Immobilisati<br>on Test) |   |
| 12.1. Toxicity to algae:                       | ErC50   | 72h | >=1<br>000<br>0 | mg/l | Scenedesm<br>us<br>subspicatus | OECD 201<br>(Alga,<br>Growth<br>Inhibition<br>Test)           |   |
| 12.2.<br>Persistence and<br>degradability:     |         |     |                 |      |                                |   | Inorganion products cannot be eliminate from wate through biological purification methods |
| 12.5. Results of<br>PBT and vPvB<br>assessment |         |     |                 |      |                                |   | No PBT<br>substand<br>No vPvE<br>substand   |

| Toxicity / effect        | Endpoin | Tim | Valu | Unit | Organism    | Test         | Notes     |
|--------------------------|---------|-----|------|------|-------------|--------------|-----------|
|                          | t       | е   | е    |      |             | method       |           |
| 12.1. Toxicity to        | EC50    | 48h | >10  | mg/l | Daphnia     | OECD 202     |           |
| daphnia:                 |         |     | 0    |      | magna       | (Daphnia     |           |
|                          |         |     |      |      |             | sp. Acute    |           |
|                          |         |     |      |      |             | Immobilisati |           |
|                          |         |     |      |      |             | on Test)     |           |
| 12.1. Toxicity to        | EC50    | 72h | >14  | mg/l | Desmodesm   | OECD 201     |           |
| algae:                   |         |     |      |      | us          | (Alga,       |           |
|                          |         |     |      |      | subspicatus | Growth       |           |
|                          |         |     |      |      |             | Inhibition   |           |
|                          |         |     |      |      |             | Test)        |           |
| Toxicity to              | EC50    | 3h  | >10  | mg/l | activated   | OECD 209     |           |
| oacteria:                |         |     | 00   |      | sludge      | (Activated   |           |
|                          |         |     |      |      |             | Sludge,      |           |
|                          |         |     |      |      |             | Respiration  |           |
|                          |         |     |      |      |             | Inhibition   |           |
|                          |         |     |      |      |             | Test         |           |
|                          |         |     |      |      |             | (Carbon      |           |
|                          |         |     |      |      |             | and          |           |
|                          |         |     |      |      |             | Ammonium     |           |
|                          |         |     |      |      |             | Oxidation))  |           |
| Toxicity to              |         |     |      |      | Eisenia     | OECD 207     | Negative  |
| annelids:                |         |     |      |      | foetida     | (Earthworm,  |           |
|                          |         |     |      |      |             | Acute        |           |
|                          |         |     |      |      |             | Toxicity     |           |
| 12.3.                    |         |     |      |      |             | Tests)       | Not       |
| 12.3.<br>Bioaccumulative |         |     |      |      |             |              | relevant  |
|                          |         |     |      |      |             |              | for       |
| potential:               |         |     |      |      |             |              | inorganic |
|                          |         |     |      |      |             |              | substance |
|                          |         |     |      |      |             |              | Substance |
| 12.4. Mobility in        |         |     |      |      |             |              | Not       |
| soil:                    |         |     |      |      |             |              | relevant  |
|                          |         |     |      |      |             |              | for       |
|                          |         |     |      |      |             |              | inorganic |
|                          |         |     |      |      |             |              | substance |
|                          |         |     |      |      |             |              |           |
| 12.5. Results of         |         |     |      |      |             |              | Not       |
| PBT and vPvB             |         |     |      |      |             |              | relevant  |
| assessment               |         |     |      |      |             |              | for       |
|                          |         |     |      |      |             |              | inorganic |
|                          |         |     |      |      |             |              | substance |
|                          | 1       |     | 1    |      |             |              |           |



Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010

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(COSMOFEN VKD 874 - Hardener)

| 12.1. Toxicity to fish:                    | LC50 | 96h | >10<br>000 | mg/l | Oncorhynch<br>us mykiss        |   |   |
|--|------|-----|------------|------|--------------------------------|---|---|
| 12.1. Toxicity to fish:                    | LC50 | 96h | >10<br>0   | mg/l | Oncorhynch<br>us mykiss        | OECD 203<br>(Fish, Acute<br>Toxicity<br>Test) |   |
| 12.1. Toxicity to daphnia:                 | EC50 | 48h | >10<br>00  | mg/l | Daphnia<br>magna               |   |   |
| 12.1. Toxicity to algae:                   | EC50 | 72h | >20<br>0   | mg/l | Desmodesm<br>us<br>subspicatus |   |   |
| 12.2.<br>Persistence and<br>degradability: |      |     |            |      |                                |   | Inorganic products cannot be eliminated from water through biological purification methods. |

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

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 or ID number Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: n.a.

Classification code: 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):
14.4. Packing group:
Marine Pollutant: n.a. n.a

14.5. Environmental hazards

Transport by air (IATA)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards: n.a. Not applicable

14.6. Special precautions for user

cified otherwise, general measures for safe transport must be followed

14.7. Maritime transport in bulk according to IMO instruments
Non-dangerous material according to Transport Regulations.

# **SECTION 15: Regulatory information**

Not applicable

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

Observe restrictions

Cosmit restrictions.

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

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

Reaction mass or 4,4-metrylenediprenty inisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl disocyanate, modified 4,4-methylenediphenyl disocyanate Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

# 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures

# **SECTION 16: Other information**

Revised sections:

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).

H373 May cause damage to organs through prolonged or repeated exposure by inhalation.
H302 Harmful if swallowed.

Harmful in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled.

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

H335 May cause respiratory irritation

H351 Suspected of causing cancer

Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation

Skill Init. — Skill Initial Oil
Resp. Sens. — Respiratory sensitization
Skin Sens. — Skin sensitization
Carc. — Carcinogenicity
STOT RE — Specific target organ toxicity - repeated exposure
Acute Tox. — Acute toxicity - inhalation
Acute Tox. — Acute toxicity - oral Acute Tox. — Acute toxicity - dermal Skin Corr. — Skin corrosion

Eye Dam. — Serious eye dama

## Key literature references and sources

#### for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU)

2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as

# 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)
Adsorbable organic halogen compounds

approx.

Adsorbation organic hangen compounds

approximately
Art. no.Article number

ASTM International (American Society for Testing and Materials)

Acute Toxicity Estimate

Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and ART., AI ASTM ATE BAM

Testing, Germany) Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

BAuA

Germany)
Bioconcentration factor
The International Bromine Council

and Safety, BCF BSEF body weight

CAS CLP Chemical Abstracts Service

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
DOC Dissolved organic carbon

dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

European Community

EUropean Community
ECHA European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European Norms
EN European Norms

United States Environmental Protection Agency (United States of America)
, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate

EPA ErCx, ΕμCx, ErLx (x = 10, 50)

(algae, plants)
etc. et cetera
EU Europear

European Union EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

general
Globally Harmonized System of Classification and Labelling of Chemicals gen. GHS



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#### (COSMOFEN VKD 874 - Hardener)

Global warming potential Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient Koc Kow 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. IUCLID including, inclusive International Uniform Chemical Information Database

IUCALU
International Union for Pure Applied Chemistry
LC50
Lethal Concentration to 50 % of a test population
Lethal Dose to 50% of a test population (Median Lethal Dose)
Log Koc
Log Koc
Log Kow, Log Pow
Logarithm of adsorption coefficient of organic carbon in the soil
LQ
Limited Quantities

ANDROIC
LIMITED TO THE PROPERTY OF THE PRO

MARPOL

International Convention for the Prevention of Marine Pollution from Ships not applicable not available not checked

n.a. n.av. n.c. n.d.a. NIOSH

no data available National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer

No Observed Effect Concentration/Level
Organisation for Economic Co-operation and Development NOEC, NOEL org. OSHA organic Occupational Safety and Health Administration (USA)

PBT

occupational sately and realin Admin persistent, bioaccumulative and toxic Polyethylene Predicted No Effect Concentration parts per million Polyvinylchloride PE PNEC ppm PVC REACH

Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No

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

SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon
UN RTDG
United Nations Recommendations on the Transport of Dangerous Goods
VPB Velatile organic compounds
VPB very persistent and very bioaccumulative

very persistent and very bioaccumulative 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:
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