

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

1.1. Product identifier

Mixture identification:

Trade name: DESMOPOL DW /B

Trade code: 904TD99999

Registration Number N/A

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

Recommended use: Polyurethane for waterproofing and protection

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: TECNOPOL SISTEMAS

c/Finlàndia, 33

08520 Les Franqueses del Vallès

Barcelona (Spain)

TECNOPOL SISTEMAS

Phone: +34 935 682 111 (office hours)

Responsible: info@tecnopol.es

1.4. Emergency telephone number

(National Institute of Toxicology) 0034 915 62 04 20

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

| | |
|---------------|--|
| Acute Tox. 4 | Harmful if inhaled. |
| Skin Irrit. 2 | Causes skin irritation. |
| Eye Irrit. 2 | Causes serious eye irritation. |
| Resp. Sens. 1 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin Sens. 1 | May cause an allergic skin reaction. |
| Carc. 2 | Suspected of causing cancer. |
| STOT SE 3 | May cause respiratory irritation. |
| STOT RE 2 | May cause damage to organs through prolonged or repeated exposure. |

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) n. 1272/2008 (CLP)

Pictograms and Signal Words



Danger

Hazard statements:

| | |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Precautionary statements:

| | |
|-----------|--|
| P201 | Obtain special instructions before use. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P312 | Call a POISON CENTER if you feel unwell. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER. |

Special Provisions:

EUH204 Contains isocyanates. May produce an allergic reaction.

Contains:

diphenylmethanediisocyanate isomers and homologues

4,4'-methylenediphenyl diisocyanate;
diphenylmethane-4,4'-diisocyanate

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

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients**3.1. Substances**

N.A.

3.2. Mixtures

Mixture identification: DESMOPOL DW /B

Hazardous components within the meaning of the CLP regulation and related classification:

| Concentration (% w/w) | Name | Ident. Numb. | Classification | Registration Number |
|-----------------------|--|--|--|-----------------------|
| ≥75 - <100 % | diphenylmethanediisocyanate isomers and homologues | CAS:9016-87-9 EC:618-498-9 Index:615-005-00-9 | Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351 | |
| ≥10 - <20 % | Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate | CAS:26447-40-5 EC:247-714-0 Index:615-005-00-9 | Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Sens. 1B, H317; Carc. 2, H351; STOT SE 3, H335; STOT RE 2, H373 | 01-2119457015-45-XXXX |
| ≥5 - <10 % | 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | CAS:101-68-8 EC:202-966-0 Index:615-005-00-9 | Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351 | 01-2119457014-47 |

SECTION 4: First aid measures**4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

List of components with OEL value

| Component | OEL Type | Country | Ceiling | Long Term mg/m ³ | Long Term ppm | Short Term mg/m ³ | Short Term ppm | Behaviour | Note | |
|--|--|-----------|---------|-----------------------------|---------------|------------------------------|----------------|---|--|--|
| diphenylmethanediisocyanate isomers and homologues | National | NORWAY | | 0.050 | 0.005 | | 0.010 | | Provoking allergic reactions or other hypersensitivity in the eyes or respiratory organs, or in contact with skin. | |
| | DFG | GERMANY | C | | | 0.050 | | | | |
| | National | GERMANY | | 0.05 | | | | | | |
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate | National | SLOVENIA | | 0.050 | | 0.050 | | | | |
| | National | GREECE | | 0.2 | 0.02 | 0.2 | 0.02 | | | |
| | NDS | POLAND | | 0.03 | | | | | | |
| | NDSch | POLAND | | | | 0.09 | | | | |
| | National | BULGARIA | | 0.05 | | 0.07 | | | | |
| | National | LITHUANIA | | 0.05 | 0.005 | | | | | |
| | National | LITHUANIA | C | | | 0.1 | 0.01 | | | |
| | 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | National | NORWAY | | 0.050 | 0.005 | | 0.010 | | Provoking allergic reactions or other hypersensitivity in the eyes or respiratory organs, or in contact with skin. |
| | | SUVA | None | | 0.020 | | 0.020 | | | |
| | | National | SWEDEN | C | 0.030 | 0.002 | 0.050 | 0.005 | | |
| NDS | | None | | 0.030 | | | | | | |
| NDSP | | None | | 0.090 | | | | | | |
| ACGIH | | None | | | 0.005 | | | Resp sens | | |
| National | | POLAND | | 0.030 | | 0.090 | | | | |
| National | | AUSTRIA | | 0.050 | 0.005 | 0.100 | 0.010 | | | |
| DFG | | GERMANY | C | | | 0.050 | | | | |
| ACGIH | | None | | | 0.005 | | | respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI)) | | |
| National | | SWEDEN | | 0.030 | 0.002 | | | | | |
| National | | FRANCE | | 0.100 | 0.010 | 0.200 | 0.020 | | | |
| National | | SPAIN | | 0.052 | 0.005 | | | | | |
| National | | DENMARK | | 0.050 | 0.005 | | | | | |
| National | | GERMANY | | 0.050 | | | | | | |
| National | PORTUGAL | | | 0.005 | | | | | | |
| National | BELGIUM | | 0.052 | 0.005 | | | | | | |
| NDS | POLAND | | 0.030 | | | | | | | |
| NDSch | POLAND | | | | 0.090 | | | | | |
| National | CZECH REPUBLIC | | 0.050 | | | | | | | |
| National | HUNGARY | | 0.05 | | 0.050 | | | | | |
| Malaysi a OEL | MALAYSIA | | 0.051 | 0.005 | | | | | | |

| | | | | | |
|--------------------------|---|-------|-------|-------|-------|
| National ESTONIA | | 0.050 | 0.005 | 0.100 | 0.010 |
| National CZECH REPUBLIC | C | | | 0.100 | |
| National SLOVAKIA | | 0.002 | | | |
| National SLOVAKIA | | 0.030 | | | |
| National SLOVENIA | | 0.050 | | 0.050 | |
| National ROMANIA | | | | 0.150 | |
| National LITHUANIA | | 0.050 | 0.005 | | |
| National LITHUANIA ACGIH | C | | | 0.100 | 0.010 |
| | | | 0.005 | | |
| National NORWAY | | 0.05 | 0.005 | | 0.01 |
| National SLOVENIA | | 0.05 | 0.005 | 0.05 | 0.005 |

respiratory sensitization
(listed under Methylene bisphenyl isocyanate (MDI))

Predicted No Effect Concentration (PNEC) values

| Component | CAS-No. | PNEC Limit | Exposure Route | Exposure Frequency | Remark |
|--|----------|----------------|-------------------------------------|--------------------|--------|
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | 101-68-8 | 1 mg/l | Fresh Water | | |
| | | 0.1 mg/l | Marine water | | |
| | | 1 mg/kg | Soil | | |
| | | 1 mg/l | Microorganisms in sewage treatments | | |
| | | 10.000000 mg/l | Intermittent release | | |

Derived No Effect Level. (DNEL)

| Component | CAS-No. | Worker Industrial | Worker Professional | Consumer | Exposure Route | Exposure Frequency | Remark |
|--|----------|-------------------|---------------------|----------|------------------|--------------------|------------------------------|
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | 101-68-8 | 50 mg/kg | | | Human Dermal | | Short Term, systemic effects |
| | | | | | Human Inhalation | 0.1 mg/m3 | Short Term, systemic effects |
| | | | | | Human Inhalation | 0.1 mg/m3 | Short Term, local effects |
| | | | | | Human Inhalation | 0.05 mg/m3 | Long Term, systemic effects |
| | | | | | Human Inhalation | 0.05 mg/m3 | Long Term, local effects |
| | | | | | Human Dermal | 25 mg/kg | Short Term, systemic effects |
| | | | | | Human Inhalation | 0.05 mg/m3 | Short Term, systemic effects |
| | | | | | Human Oral | 20 mg/kg | Short Term, systemic effects |
| | | | | | Human Inhalation | 0.05 mg/m3 | Short Term, local effects |
| | | | | | Human Inhalation | 0.025 mg/m3 | Long Term, systemic effects |
| | | | | | Human Inhalation | 0.025 mg/m3 | Long Term, local effects |

28.7
mg/cm²

17.2 Human Dermal
mg/cm²

Short Term, local
effects

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use adequate protective respiratory equipment.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid Dark brown

Odour: none

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 220 °C (428 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.20 g/cm³

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: 90.00 cPs

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

| | | | |
|--|--------------------------------------|--|------|
| diphenylmethanediisocyanate isomers and homologues | a) acute toxicity | LD50 Oral Rat > 10000 mg/kg | |
| | | LD50 Skin Rabbit > 9400 mg/kg | |
| | | LC50 Inhalation Dust Rat = mg/l 4h | |
| | | LD50 Skin Rabbit > 9.4 g/kg | |
| | | LC50 Inhalation Rat = 490 mg/m ³ 4h | |
| | | LD50 Oral Rat = 49 g/kg | |
| | g) reproductive toxicity | NOAEL Inhalation Rat = 12 mg/m ³ | |
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate | a) acute toxicity | LD50 Skin Rabbit > 10000 mg/kg | |
| | | LC50 Inhalation Rat = 490 mg/m ³ 4h | |
| | | LD50 Oral Rat > 10000 mg/kg | |
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | a) acute toxicity | LD50 Oral Rat > 2000 mg/kg | |
| | | LD50 Skin Rabbit > 9400 mg/kg | |
| | | LC50 Inhalation Dust Rat = 0.368 mg/l 4h | |
| | | LC50 Inhalation Rat = 369 mg/m ³ 4h | |
| | | LD50 Oral Rat = 31600 mg/kg | |
| | b) skin corrosion/irritation | Skin Irritant Skin Rabbit Positive | |
| | d) respiratory or skin sensitisation | Skin Sensitization Skin Mouse Positive | |
| | | Respiratory Sensitization Inhalation Positive | |
| | f) carcinogenicity | Carcinogenicity Inhalation Rat = 6 mg/m ³ | 2 y |
| | g) reproductive toxicity | NOAEL Inhalation Rat = 12 mg/m ³ | 20 d |

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
 - b) skin corrosion/irritation
 - c) serious eye damage/irritation
 - d) respiratory or skin sensitisation
 - e) germ cell mutagenicity
 - f) carcinogenicity
 - g) reproductive toxicity
 - h) STOT-single exposure
- Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

| Component | Ident. Numb. | Ecotox Infos |
|--|---|---|
| diphenylmethanediisocyanate isomers and homologues | CAS: 9016-87-9 - EINECS: 618-498-9 - INDEX: 615-005-00-9 | a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24 b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72 c) Bacteria toxicity : EC50 > 100 mg/L 3 d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d e) Plant toxicity : NOEC > 1000 mg/kg - 14 d |
| Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate | CAS: 26447-40-5 - EINECS: 247-714-0 - INDEX: 615-005-00-9 | d) Terrestrial toxicity : LC50 Worm Eisenia foetida > 1000 mg/kg 14d IUCLID d) Terrestrial toxicity : NOEC Worm Eisenia foetida >= 1000 mg/kg 14d IUCLID |
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | CAS: 101-68-8 - EINECS: 202-966-0 - INDEX: 615-005-00-9 | a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24 b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72 c) Bacteria toxicity : EC50 > 100 mg/L 3 d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d e) Plant toxicity : NOEC > 1000 mg/kg - 14 d |

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID) :

N.A.

Air (IATA) :

N.A.

Sea (IMDG) :

N.A.

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

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) 2015/830

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH)

and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 56

SVHC Substances:

No data available

National regulations

MAL-kode: 00-3; A+B (12.2 : 2.8)=00-3 (1993)

German Water Hazard Class (WGK)

N.A.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

| Code | Description |
|------|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure if inhaled. |

| Code | Hazard class and hazard category | Description |
|-------------|----------------------------------|--|
| 3.1/4/Inhal | Acute Tox. 4 | Acute toxicity (inhalation), Category 4 |
| 3.2/2 | Skin Irrit. 2 | Skin irritation, Category 2 |
| 3.3/2 | Eye Irrit. 2 | Eye irritation, Category 2 |
| 3.4.1/1 | Resp. Sens. 1 | Respiratory Sensitisation, Category 1 |
| 3.4.2/1 | Skin Sens. 1 | Skin Sensitisation, Category 1 |
| 3.4.2/1B | Skin Sens. 1B | Skin Sensitisation, Category 1B |
| 3.6/2 | Carc. 2 | Carcinogenicity, Category 2 |
| 3.8/3 | STOT SE 3 | Specific target organ toxicity — single exposure, Category 3 |
| 3.9/2 | STOT RE 2 | Specific target organ toxicity — repeated exposure, Category 2 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| 3.1/4/Inhal | Calculation method |
| 3.2/2 | Calculation method |
| 3.3/2 | Calculation method |
| 3.4.1/1 | Calculation method |
| 3.4.2/1 | Calculation method |
| 3.6/2 | Calculation method |
| 3.8/3 | Calculation method |
| 3.9/2 | Calculation method |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
BCF: Biological Concentration Factor
BEI: Biological Exposure Index
BOD: Biochemical Oxygen Demand
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CAV: Poison Center
CE: European Community
CLP: Classification, Labeling, Packaging.
CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 7. HANDLING AND STORAGE

- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION