Safety Data Sheet MAPEPROOF SWELL

Safety Data Sheet dated: 07/02/2023 - version 5



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

1.1. Product identifier

Mixture identification:

Trade name: MAPEPROOF SWELL

Trade code: 9028211 UFI: K2M0-90RN-N00M-HVDJ

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

Recommended use: One-component pasty sealing

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: MAPEI U.K. Ltd - Mapei House Steel Park Road

Halesowen - West Midlands B62 8HD

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960 - www.mapei.co.uk (office hour 8:30-17:30)

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)333 333 9962

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

2 The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total

weight of the mixture.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words



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Hazard statements

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

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH208 Contains 4-isocyanatesulphonyltoluene; tosyl isocyanate. May produce an allergic reaction.

EUH204 Contains isocyanates. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Contains

diphenylmethane-4,4'-diisocyanate

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

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

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: MAPEPROOF SWELL

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

Televat Novembe

| | Qty | Name | Ident. Numb. | Classification | Registration Number |
|--|-----------------|--|--|---|-----------------------|
| | ≥10 - <20 % | Alkanes, C9-11-iso- | CAS:68551-16-6 EC:271-365-3 | Asp. Tox. 1, H304; Flam. Liq. 3, H226 | |
| | ≥1 - <2.5 % | 4-isocyanatesulphonyltoluene; tosyl isocyanate | EC:223-810-8 | Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334, EUH014 | 01-2119980050-47-XXXX |
| | | | | Specific Concentration Limits: $C \ge 5\%$: Skin Irrit. 2 H315 $C \ge 5\%$: Eye Irrit. 2 H319 $C \ge 5\%$: STOT SE 3 H335 | |
| | ≥0.49 - <1 % | nonane | CAS:111-84-2 EC:203-913-4 | Flam. Liq. 3, H226; STOT SE 3, H336; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Aquatic Chronic 1, H410 | |
| | ≥0.49 - <1 % | 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-XXXX |
| | | | | Specific Concentration Limits: $0.1\% \le C < 100\%$: Resp. Sens. 1 H334 $5\% \le C < 100\%$: Skin Irrit. 2 H315 $5\% \le C < 100\%$: Eye Irrit. 2 H319 $5\% \le C < 100\%$: STOT SE 3 H335 | |
| | | | | | |

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.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

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

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Not available

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).

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(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.

Remove persons to safety.

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.

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

Community Occupational Exposure Limits (OEL)

| | OEL Country | | Occupational Exposure Limit | |
|---------------------------|-------------|--|---|--|
| | Type | | | |
| - | SUVA | | Long Term: 0,02 mg/m3; Short Term: 0,02 mg/m3 | |
| ocyanatesulphonyltoluene: | | | | |

isocyanatesulphonyltoluene; tosyl isocyanate

CAS: 4083-64-1

nonane ACGIH Long Term: 200 ppm CAS: 111-84-2 CNS impairment

National FRANCE Long Term: 1050 mg/m3 - 200 ppm

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Occupational Exposure Limit

National SPAIN Long Term: 1065 mg/m3 - 200 ppm
National DENMARK Long Term: 1050 mg/m3 - 200 ppm

National FINLAND Long Term: 1100 mg/m3 - 200 ppm; Short Term: 1300 mg/m3 - 250 ppm
National NORWAY Long Term: 525 mg/m3 - 100 ppm; Short Term: 656,25 mg/m3 - 125 ppm

National BELGIUM Long Term: 1065 mg/m3 - 200 ppm
Malaysi MALAYSIA Long Term: 1050 mg/m3 - 200 ppm

a OEL

diphenylmethane-4,4'-

diisocyanate

CAS: 101-68-8

National SLOVAKIA Ceiling - Short Term: 1100 mg/m3

National NORWAY Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm

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SUVA Long Term: 0,02 mg/m3; Short Term: 0,02 mg/m3

National SWEDEN Ceiling - Long Term: 0,03 mg/m3 - 0,002 ppm; Short Term: 0,05 mg/m3 - 0,005 ppm

SWEDEN, Ceiling limit value

NDS Long Term: 0,03 mg/m3
NDSP Long Term: 0,09 mg/m3
ACGIH Long Term: 0,005 ppm

Resp sens

National POLAND Long Term: 0,03 mg/m3; Short Term: 0,09 mg/m3

National AUSTRIA Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,1 mg/m3 - 0,01 ppm

DFG GERMANY Ceiling - Short Term: 0,05 mg/m3

ACGIH Long Term: 0,005 ppm

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

National SWEDEN Long Term: 0,03 mg/m3 - 0,002 ppm

National FRANCE Long Term: 0,1 mg/m3 - 0,01 ppm; Short Term: 0,2 mg/m3 - 0,02 ppm

National SPAIN Long Term: 0,052 mg/m3 - 0,005 ppm
National DENMARK Long Term: 0,05 mg/m3 - 0,005 ppm

National GERMANY Long Term: 0,05 mg/m3
National PORTUGAL Long Term: 0,005 ppm

National BELGIUM Long Term: 0,052 mg/m3 - 0,005 ppm

NDS POLAND Long Term: 0,03 mg/m3
NDSCh POLAND Short Term: 0,09 mg/m3
National CZECH Long Term: 0,05 mg/m3

REPUBLIC

National HUNGARY Long Term: 0,05 mg/m3; Short Term: 0,05 mg/m3

Malaysi MALAYSIA Long Term: 0,051 mg/m3 - 0,005 ppm

a OEL

National ESTONIA Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,1 mg/m3 - 0,01 ppm

National CZECH Ceiling - Short Term: 0,1 mg/m3

REPUBLIC

National SLOVAKIA Long Term: 0,002 mg/m3
National SLOVAKIA Long Term: 0,03 mg/m3

National SLOVENIA Long Term: 0,05 mg/m3; Short Term: 0,05 mg/m3

National ROMANIA Short Term: 0,15 mg/m3

National LITHUANIA Long Term: 0,05 mg/m3 - 0,005 ppm

National LITHUANIA Ceiling - Short Term: 0,1 mg/m3 - 0,01 ppm

ACGIH Long Term: 0,005 ppm

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

National NORWAY Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm

National SLOVENIA Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,05 mg/m3 - 0,005 ppm

Predicted No Effect Concentration (PNEC) values

diphenylmethane-4,4'- Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

diisocyanate CAS: 101-68-8

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Exposure Route: Marine water; PNEC Limit: 0,1 mg/l

Exposure Route: Soil; PNEC Limit: 1 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

Exposure Route: Intermittent release; PNEC Limit: 10 mg/l

Derived No Effect Level (DNEL) values

diphenylmethane-4,4'-diisocyanate

CAS: 101-68-8

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Industry: 50 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Industry: 0,1 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Industry: 0,1 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 0,05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Industry: 0,05 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Consumer: 25 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Consumer: 0,05 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 20 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Consumer: 0,05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 0,025 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Consumer: 0,025 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects

Worker Industry: 28,7 mg/cm2; Consumer: 17,2 mg/cm2

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

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 >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

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.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

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

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Physical state: Liquid Appearance: paste

Color: Grey

Odour: Characteristic

Odour threshold: Not available

Melting point / freezing point: Not available
Initial boiling point and boiling range: Not available

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: Not available

Auto-ignition temperature: Not available Decomposition temperature: Not available

pH: Not available Viscosity: Not available

Kinematic viscosity: Not available Solubility in water: no data available Solubility in oil: no data available

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

Vapour pressure: Not available Relative density: 1.25 g/cm3 Vapour density: Not available **Particle characteristics:** Particle size: Not available

9.2. Other information

Miscibility: Not available Conductivity: Not available Explosive properties: == No other relevant 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 hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation The product is classified: Resp. Sens. 1(H334)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

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h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

4- a) acute toxicity

LC50 Inhalation Rat > 640 ppm 1h

is ocyanate sulphonyl to luen

e; tosyl isocyanate

LD50 Oral Rat = 2234 mg/kg

nonane a) acute toxicity

LC50 Inhalation Rat = 3200 ppm 4h

diphenylmethane-4,4'diisocyanate a) acute toxicity

LD50 Oral Rat > 2000 mg/kg

LD50 Skin Rabbit > 9400 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/m3 2 y q) reproductive toxicity NOAEL Inhalation Rat = 12, mg/m3 20 d

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of Eco-Toxicological properties of the components

Component Ident. Numb. Ecotox Data

diphenylmethane-4,4'-diisocyanate CAS: 101-68-8 - a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96 EINECS: 202-966-0 - INDEX: 615-005-00-9

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 de) 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

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12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

Not available

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 or ID number

Not Applicable

14.2. UN proper shipping name

Not Applicable

14.3. Transport hazard class(es)

Not Applicable

14.4. Packing group

Not Applicable

14.5. Environmental hazards

Not Applicable

14.6. Special precautions for user

Not Applicable

Road and Rail (ADR-RID):

ADR-Hazard identification number: NA

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

SECTION 15: Regulatory information

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

VOC (2004/42/EC): N.A. g/l

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) n. 2020/878

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Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
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. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
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Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 CLP)

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

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: 40, 56, 74, 75

SVHC Substances:

SVHC substances not present in a concentration ≥ 0.1% (w/w)

National regulations

Produktregisteret Norge: 647700

Lagerklasse (TRGS-510): 13 - Non-combustible solids, that cannot be assigned to any of the aforementioned LGK

German Water Hazard Class.

Class 2: hazardous for water.

15.2. Chemical safety assessment

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

SECTION 16: Other information

| Code | Description | | | |
|-------------|---|---|--|--|
| EUH014 | Reacts violently with water. | | | |
| H226 | Flammable liquid and vapour. | | | |
| H304 | May be fatal if swallowed and enters airways. | | | |
| 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. | | | |
| H336 | May cause drowsiness or dizziness. | | | |
| H351 | Suspected of causing cancer. | | | |
| H373 | May cause damage to organs through prolonged or repeated exposure if inhaled. | | | |
| H400 | Very toxic to aquatic life. | | | |
| H410 | Very toxic to aquatic life with long lasting effects. | | | |
| H412 | Harmful to aquatic life with long lasting effects. | | | |
| Code | Hazard class and hazard category | Description | | |
| 2.6/3 | Flam. Liq. 3 | Flammable liquid, Category 3 | | |
| 3.1/4/Inhal | Acute Tox. 4 | Acute toxicity (inhalation), Category 4 | | |
| 3.10/1 | Asp. Tox. 1 | Aspiration hazard, Category 1 | | |
| | | | | |

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| 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 |
| 3.6/2 | 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 |
| 4.1/A1 | Aquatic Acute 1 | Acute aquatic hazard, category 1 |
| 4.1/C1 | Aquatic Chronic 1 | Chronic (long term) aquatic hazard, category 1 |
| 4.1/C3 | Aquatic Chronic 3 | Chronic (long term) aquatic hazard, category 3 |

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

Classification according to Regulation Classification procedure (EC) Nr. 1272/2008

3.4.1/1 Calculation method 4.1/C3 Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

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.

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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

KAFH: KAFH

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:

- SECTION 3: Composition/information on ingredients

- SECTION 8: Exposure controls/personal protection

- SECTION 9: Physical and chemical properties

- SECTION 15: Regulatory information

- SECTION 16: Other information

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