

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

NOVA TITAN STICK

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

1.1. Product identifier

Product name : NOVA TITAN STICK
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Epoxy resin

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
☎ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|-----------------|------------|--|
| Skin Sens. | category 1 | H317: May cause an allergic skin reaction. |
| Eye Dam. | category 1 | H318: Causes serious eye damage. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| Aquatic Chronic | category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.2. Label elements



Contains: bis-[4-(2,3-epoxipropoxy)phenyl]propane; reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700); fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines; formaldehyde/aniline, polymer, hydrogenated; triethylenetetramine.

Signal word Danger

H-statements

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.

P-statements

P280 Wear protective gloves, protective clothing and eye protection/face protection.
P264 Wash hands thoroughly after handling.

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P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P391 Collect spillage.

2.3. Other hazards

Caution! Substance is absorbed through the skin

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name REACH Registration No | CAS No EC No | Conc. (C) | Classification according to CLP | Note | Remark | M-factors and ATE |
|---|-------------------------|---------------|---|------------|-------------|----------------------|
| Talc (Mg ₃ H ₂ (SiO ₃) ₄) | 14807-96-6 238-877-9 | 25% ≤C≤50% | | (2) | Constituent | |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane 01-2119456619-26 | 1675-54-3 216-823-5 | C≤10% | Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411 Eye Irrit. 2; H319: C≥5%, (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: C≥5%, (CLP Annex VI (ATP 0)) | (1)(6)(10) | Constituent | |
| reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 01-2119456619-26 | 25068-38-6 500-033-5 | C<10% | Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411 Eye Irrit. 2; H319: C≥5%, (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: C≥5%, (CLP Annex VI (ATP 0)) | (1)(10) | Constituent | |
| fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines | 68410-23-1 | C<10% | Skin Sens. 1A; H317 Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 2; H411 | (1) | Constituent | |
| zinc sulphide | 1314-98-3 215-251-3 | C<10% | | | Constituent | |
| formaldehyde/aniline, polymer, hydrogenated | 135108-88-2 | C<1% | Acute Tox. 3; H301 Skin Sens. 1; H317 STOT RE 2; H373 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 | (1)(10) | Constituent | |
| triethylenetetramine | 112-24-3 203-950-6 | C<1% | Skin Sens. 1; H317 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 | (1)(2)(10) | Constituent | |

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

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After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:

Tingling/irritation of the skin.

After skin contact:

No effects known.

After eye contact:

Corrosion of the eye tissue.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, sulphur oxides, carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows. Exposure to fire/heat: consider evacuation.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product. Dam up the solid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Solid spill: cover with absorbent material. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

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SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Meet the legal requirements. Store in a cool area. Keep out of direct sunlight. Store in a dry area. Keep container in a well-ventilated place. Keep only in the original container.

7.2.2 Keep away from:

Heat sources, oxidizing agents, reducing agents, (strong) bases.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

| | | |
|----------------------------|--|---------------------|
| Talc (sans fibre d'amiant) | Time-weighted average exposure limit 8 h | 2 mg/m ³ |
|----------------------------|--|---------------------|

The Netherlands

| | | |
|-------------------|---|----------------------------|
| Talc (respirabel) | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 0.016 ppm (1) |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 0.25 mg/m ³ (1) |

(1) respirabel

Germany

| | | |
|--|---|---------------------------|
| Bisphenol-A-diglycidylether | <i>vgl. Abschn. IIb</i> | |
| Triethylenetetramin | <i>Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen.</i> | |
| Zink und seine anorganischen Verbindungen (alveolengängige Fraktion) | Time-weighted average exposure limit 8 h (MAK) | 0.1 mg/m ³ (1) |
| Zink und seine anorganischen Verbindungen (einatembare Fraktion) | Time-weighted average exposure limit 8 h (MAK) | 2 mg/m ³ (2) |

(1) Alveolengängige Fraktion

(2) Einatembare Fraktion

Austria

| | | |
|------------------------|-----------------------|-------------------------|
| Talc (asbestfaserfrei) | Tagesmittelwert (MAK) | 2 mg/m ³ (1) |
|------------------------|-----------------------|-------------------------|

(1) Alveolengängige Fraktion

UK

| | | |
|-----------------------|---|---------------------|
| Talc, respirable dust | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1 mg/m ³ |
|-----------------------|---|---------------------|

USA (TLV-ACGIH)

| | | |
|-------------------------------------|--|--------------------------------|
| Talc: Containing asbestos fibers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 0.1 fibers/cm ³ (1) |
| Talc: Containing no asbestos fibers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 2 mg/m ³ (2) |

(1) (F): Respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination

(2) R,E: Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

| Product name | Test | Number |
|---------------------------------|-------|--------|
| Diglycidyl Ether of Bisphenol A | OSHA | 1018 |
| Triethylene Tetramine | OSHA | 60 |
| triethylenetetramine | NIOSH | 2540-1 |
| triethylenetetramine | NIOSH | 2540-2 |

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| Product name | Test | Number |
|----------------------|-------|-----------|
| triethylenetetramine | NIOSH | 2540-teta |
| Zinc & Cpds (as Zn) | NIOSH | 7030 |

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

Talc (Mg₃H₂(SiO₃)₄)

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2.16 mg/m ³ | |
| | Acute systemic effects inhalation | 2.16 mg/m ³ | |
| | Long-term local effects inhalation | 3.6 mg/m ³ | |
| | Acute local effects inhalation | 3.6 mg/m ³ | |
| | Long-term systemic effects dermal | 43.2 mg/kg bw/day | |
| | Long-term local effects dermal | 4.54 mg/cm ² | |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 4.93 mg/m ³ | |
| | Long-term systemic effects dermal | 0.75 mg/kg bw/day | |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 3.9 mg/m ³ | |
| | Long-term systemic effects dermal | 1.1 mg/m ³ | |

zinc sulphide

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|---------------------|--------|
| DNEL | Long-term systemic effects inhalation | 5 mg/m ³ | |
| | Long-term systemic effects dermal | 83 mg/kg bw/day | |

formaldehyde/aniline, polymer, hydrogenated

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 0.2 mg/m ³ | |
| | Acute systemic effects inhalation | 2 mg/m ³ | |
| | Long-term systemic effects dermal | 2 mg/kg bw/day | |
| | Acute systemic effects dermal | 6 mg/kg bw/day | |

DNEL/DMEL - General population

Talc (Mg₃H₂(SiO₃)₄)

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1.08 mg/m ³ | |
| | Acute systemic effects inhalation | 1.08 mg/m ³ | |
| | Long-term local effects inhalation | 1.8 mg/m ³ | |
| | Acute local effects inhalation | 1.8 mg/m ³ | |
| | Long-term systemic effects dermal | 21.6 mg/kg bw/day | |
| | Long-term local effects dermal | 2.27 mg/kg bw/day | |
| | Long-term systemic effects oral | 160 mg/kg bw/day | |
| | Acute systemic effects oral | 160 mg/kg bw/day | |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 0.87 mg/m ³ | |
| | Long-term systemic effects dermal | 89.3 µg/kg bw/day | |
| | Long-term systemic effects oral | 0.5 mg/kg bw/day | |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 0.97 mg/m ³ | |
| | Long-term systemic effects dermal | 0.56 mg/m ³ | |
| | Long-term systemic effects oral | 0.56 mg/m ³ | |

zinc sulphide

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2.5 mg/m ³ | |
| | Long-term systemic effects dermal | 83 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.83 mg/kg bw/day | |

PNEC

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Talc (Mg₃H₂(SiO₃)₄)

| Compartments | Value | Remark |
|--------------------------------------|-------------------------|--------|
| Fresh water | 597.97 mg/l | |
| Fresh water (intermittent releases) | 597.97 mg/l | |
| Marine water | 141.26 mg/l | |
| Marine water (intermittent releases) | 141.26 mg/l | |
| Fresh water sediment | 31.33 mg/kg sediment dw | |
| Marine water sediment | 3.13 mg/kg sediment dw | |
| Air | 10 mg/m ³ | |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Compartments | Value | Remark |
|--------------------------------------|-------------------------|--------|
| Fresh water | 0.006 mg/l | |
| Marine water | 0.001 mg/l | |
| Fresh water (intermittent releases) | 0.018 mg/l | |
| Marine water (intermittent releases) | 0.002 mg/l | |
| STP | 10 mg/l | |
| Fresh water sediment | 0.341 mg/kg sediment dw | |
| Marine water sediment | 0.034 mg/kg sediment dw | |
| Soil | 0.065 mg/kg soil dw | |
| Oral | 11 mg/kg food | |

zinc sulphide

| Compartments | Value | Remark |
|-----------------------|-------------------------|--------|
| Fresh water | 20.6 µg/l | |
| Marine water | 6.1 µg/l | |
| STP | 100 µg/l | |
| Fresh water sediment | 117.8 mg/kg sediment dw | |
| Marine water sediment | 56.5 mg/kg sediment dw | |
| Soil | 35.6 mg/kg soil dw | |

formaldehyde/aniline, polymer, hydrogenated

| Compartments | Value | Remark |
|-------------------------------------|-----------------------|--------|
| Fresh water | 0.015 mg/l | |
| Fresh water (intermittent releases) | 0.15 mg/l | |
| Marine water | 0.002 mg/l | |
| STP | 1.9 mg/l | |
| Fresh water sediment | 15 mg/kg sediment dw | |
| Marine water sediment | 1.5 mg/kg sediment dw | |
| Soil | 1.8 mg/kg soil dw | |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions.

b) Hand protection:

Protective gloves against chemicals (EN 374).

| Materials | Measured breakthrough time | Thickness | Protection index | Remark |
|----------------|----------------------------|-----------|------------------|--------|
| nitrile rubber | > 60 minutes | | Class 3 | |
| viton | > 240 minutes | | Class 5 | |

c) Eye protection:

Safety glasses (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------|------------------|
| Physical form | Paste |
| Viscosity | Viscous |
| Colour | Brown |
| Odour | Almost odourless |

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| | |
|---------------------------|---------------------------------------|
| Odour threshold | No data available in the literature |
| Melting point | No data available in the literature |
| Boiling point | > 35 °C |
| Flammability | Not classified as flammable |
| Explosion limits | No data available in the literature |
| Flash point | > 100 °C ; Closed cup |
| Auto-ignition temperature | No data available in the literature |
| Decomposition temperature | No data available in the literature |
| pH | Not applicable (non-soluble in water) |
| Kinematic viscosity | No data available in the literature |
| Solubility | Water ; insoluble |
| Log Kow | Not applicable (mixture) |
| Vapour pressure | No data available in the literature |
| Absolute density | 1900 kg/m ³ ; 20 °C |
| Relative density | 1.90 ; 20 °C |
| Relative vapour density | No data available in the literature |
| Particle size | No data available |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts violently with (strong) oxidizers and with (strong) reducers.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

Oxidizing agents, reducing agents, (strong) bases.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, sulphur oxides, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

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No (test) data on the mixture available

Judgement is based on the relevant ingredients

Talc (Mg₃H₂(SiO₃)₄)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|----------|-----------------|---------------|---------------------|---------------------|------------------------------------|
| Oral | LD50 | OECD 423 | > 5000 mg/kg bw | | Rat (male) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | 24 h | Rat (male / female) | Experimental value | |
| Inhalation (aerosol) | LC50 | OECD 403 | > 2.1 mg/l | 4 h | Rat (male / female) | Experimental value | (maximum achievable concentration) |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|----------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | OECD 420 | > 2000 mg/kg bw | | Rat (female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Inhalation (vapours) | LC0 | | 0.000008 ppm | 5 h | Rat (male) | Experimental value | |

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fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|----------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | OECD 423 | > 2000 mg/kg bw | | Rat (female) | Experimental value | |
| Skin | LD50 | OECD 402 | > 2000 mg/kg bw | 24 h | Rat (male / female) | Experimental value | |
| Inhalation | | | | | | Data waiving | |

zinc sulphide

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------------|--------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | > 5000 mg/kg | | Rat (male / female) | Read-across | |
| Dermal | | | | | | Data waiving | |
| Inhalation (dust) | LC50 | OECD 403 | > 5.41 mg/l | 4 h | Rat (male / female) | Read-across | |

formaldehyde/aniline, polymer, hydrogenated

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|----------------------------|----------------------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | OECD 423 | 50 mg/kg bw - 300 mg/kg bw | | Rat (female) | Experimental value | |
| Dermal | LD50 | Equivalent to EPA OPP 81-2 | > 1000 mg/kg bw | 24 h | Rabbit (male / female) | Experimental value | |
| Inhalation | | | | | | Data waiving | |

triethylenetetramine

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|--------|------------|---------------|---------|---------------------|--------|
| Dermal | | | category 4 | | | Annex VI | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

NOVA TITAN STICK

No (test)data on the mixture available

Classification is based on the relevant ingredients

Talc (Mg₃H₂(SiO₃)₄)

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|--------------------------------|----------------|----------------|---------------|---------------------|-------------------------------|---------------------|----------------------------------|
| Eye | Not irritating | OECD 405 | | 1; 24; 48; 72 hours | Rabbit | Experimental value | Single treatment without rinsing |
| Not applicable (in vitro test) | Not irritating | EU Method B.46 | | | Reconstructed human epidermis | Experimental value | |

bis-[4-(2,3-epoxypropoxy)phenyl]propane

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|------------------------|----------|---------------|------------------------|---------|---------------------|-----------------|
| Eye | Not irritating | OECD 405 | | 24; 48; 72 hrs; 7 days | Rabbit | Experimental value | Single exposure |
| Eye | Irritating; category 2 | | | | | Annex VI | |
| Skin | Slightly irritating | OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Irritating; category 2 | | | | | Annex VI | |

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|------------------------|--------|---------------|------------|---------|---------------------|--------|
| Eye | Irritating; category 2 | | | | | Annex VI | |
| Skin | Irritating; category 2 | | | | | Annex VI | |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|--------------------------------|--------------------|----------|------------------------|-------------------------|-------------------------------|---------------------|----------------------------------|
| Eye | Serious eye damage | OECD 405 | | 24; 48; 72 hrs; 21 days | Rabbit | Read-across | Single treatment without rinsing |
| Not applicable (in vitro test) | Not corrosive | OECD 431 | 3 minutes - 60 minutes | | Reconstructed human epidermis | Experimental value | |
| Not applicable (in vitro test) | Irritating | OECD 439 | 1 h | 42 hours | Reconstructed human epidermis | Read-across | |

Reason for revision: 2; 3; 5; 6; 7; 8; 10; 11; 12; 13; 14; 15

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Revision number: 1000

BIG number: 35912

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NOVA TITAN STICK

zinc sulphide

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|---------------------|---------------|---------------|---------------------|---------|---------------------|-------------------------------|
| Eye | Slightly irritating | EU Method B.5 | 24 h | 1; 24; 48; 72 hours | Rabbit | Read-across | Single treatment with rinsing |
| Skin | Not irritating | Patch test | 5 day(s) | | Rabbit | Read-across | |

formaldehyde/aniline, polymer, hydrogenated

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|--------------------------------|------------------------|----------|---------------|------------|---------|---------------------|--------|
| Eye | | | | | | Data waiving | |
| Not applicable (in vitro test) | Corrosive; category 1C | OECD 435 | 109 year(s) | | | Experimental value | |

triethylenetetramine

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------------------|--------|---------------|------------|---------|---------------------|--------|
| Eye | Serious eye damage; category 1 | | | | | Annex VI | |
| Skin | Corrosive; category 1B | | | | | Annex VI | |

Conclusion

Causes skin irritation.
Causes serious eye damage.
Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

NOVA TITAN STICK

No (test)data on the mixture available
Classification is based on the relevant ingredients
Talc (Mg₃H₂(SiO₃)₄)

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Not sensitizing | OECD 406 | | | Guinea pig (female) | Experimental value | |
| Inhalation | Not sensitizing | | | | Rat (male) | Experimental value | |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|----------------------|-------------|----------|---------------|------------------------|----------------|---------------------|--------|
| Dermal (on the ears) | Sensitizing | OECD 429 | | | Mouse (female) | Experimental value | |

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-------------------------|--------|---------------|------------------------|---------|---------------------|--------|
| Skin | Sensitizing; category 1 | | | | | Annex VI | |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|----------------------|-------------|----------|---------------|------------------------|----------------|---------------------|--------|
| Dermal (on the ears) | Sensitizing | OECD 429 | | | Mouse (female) | Experimental value | |

zinc sulphide

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Not sensitizing | OECD 406 | | | Guinea pig (female) | Read-across | |

formaldehyde/aniline, polymer, hydrogenated

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-------------|------------------------|---------------|------------------------|------------|---------------------------------------|--------|
| Skin | Sensitizing | Equivalent to OECD 406 | | | Guinea pig | Experimental value of similar product | |

triethylenetetramine

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-------------------------|--------|---------------|------------------------|---------|---------------------|--------|
| Skin | Sensitizing; category 1 | | | | | Annex VI | |

Conclusion

May cause an allergic skin reaction.
Not classified as sensitizing for inhalation

Specific target organ toxicity

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NOVA TITAN STICK

NOVA TITAN STICK

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Talc (Mg₃H₂(SiO₃)₄)

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|------------------------|----------------------------|-------|-----------|------------------------------------|---------------------|---------------------|
| Oral (diet) | NOAEL | Equivalent to OECD 452 | 100 mg/kg bw/day | | No effect | 101 day(s) | Rat (male / female) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation (aerosol) | NOAEC | Equivalent to OECD 452 | 10.8 mg/m ³ air | | No effect | 52 weeks (7h / day, 5 days / week) | Rat (male / female) | Experimental value |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---------------------|------------------------|----------|------------------|-------|-----------------------------|---------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | OECD 408 | 50 mg/kg bw/day | | No effect | 14 weeks (7 days / week) | Rat (male / female) | Experimental value |
| Dermal | NOAEL systemic effects | OECD 411 | 100 mg/kg bw/day | | No adverse systemic effects | 13 weeks (3 times / week) | Mouse (male) | Experimental value |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-------------------|-----------|--------|---------------|-------|--------|---------------|---------|---------------------|
| Inhalation | | | STOT SE cat.3 | | | | | Annex VI |

zinc sulphide

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-------------------|-----------|----------|--------------------|-------|-----------|---------------|---------------------|---------------------|
| Oral (diet) | NOAEL | OECD 408 | 13.26 mg/kg bw/day | | No effect | 13 week(s) | Rat (male / female) | Read-across |

formaldehyde/aniline, polymer, hydrogenated

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---------------------|------------|----------|------------------|--------|--------------------------|---------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | OECD 407 | 15 mg/kg bw/day | | No effect | > 28 day(s) | Rat (male / female) | Experimental value |
| Oral (stomach tube) | Dose level | OECD 407 | 150 mg/kg bw/day | Kidney | Impairment/d egeneration | > 28 day(s) | (male / female) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation | | | | | | | | Data waiving |

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

NOVA TITAN STICK

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Talc (Mg₃H₂(SiO₃)₄)

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|--------------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 472 | Escherichia coli | | Experimental value | |

zinc sulphide

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|--------------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Read-across | |
| Negative with metabolic activation, negative without metabolic activation | OECD 481 | Yeast (S. cerevisiae) | | Read-across | |

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NOVA TITAN STICK

formaldehyde/aniline, polymer, hydrogenated

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|-------------------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Mouse (lymphoma L5178Y cells) | | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | OECD 473 | CHL/IU cells | | Experimental value | |

Mutagenicity (in vivo)

NOVA TITAN STICK

No (test) data on the mixture available

Judgement is based on the relevant ingredients

Talc (Mg₃H₂(SiO₃)₄)

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|--------------------------------|------------------------|-------------------|----------------|-------|---------------------|
| Negative (Oral (stomach tube)) | Equivalent to OECD 478 | 5 days (1x / day) | Rat (male) | | Experimental value |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|--------------------------------|----------|-----------------|----------------|-------|---------------------|
| Negative (Oral (stomach tube)) | OECD 488 | 4 weeks (daily) | Rat (male) | | Experimental value |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

NOVA TITAN STICK

No (test) data on the mixture available

Judgement is based on the relevant ingredients

Talc (Mg₃H₂(SiO₃)₄)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|----------|--------------------------|---|---------------------|------------------------|-------|---------------------|
| Inhalation (aerosol) | NOAEC | OECD 453 | 18 mg/m ³ air | 113 weeks (6h / day, 5 days / week) - 122 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Experimental value |
| Oral (diet) | NOAEL | OECD 453 | 100 mg/kg bw/day | 101 day(s) | Rat (male / female) | No carcinogenic effect | | Experimental value |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---------------------|-----------|----------|------------------------------------|---------------------------|---------------------|------------------------|-------|---------------------|
| Dermal | NOEL | OECD 453 | 100 mg/kg bw/day | 104 weeks (5 days / week) | Rat (female) | No carcinogenic effect | | Experimental value |
| Oral (stomach tube) | NOAEL | OECD 453 | 15 mg/kg bw/day - 100 mg/kg bw/day | 104 week(s) | Rat (male / female) | No carcinogenic effect | | Experimental value |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

NOVA TITAN STICK

No (test) data on the mixture available

Judgement is based on the relevant ingredients

Talc (Mg₃H₂(SiO₃)₄)

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|------------------------------|---------------------|--------------------|-----------------|-----------|-------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | 1600 mg/kg bw/day | 10 days (1x / day) | Rat | No effect | | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | ≥ 1600 mg/kg bw/day | 10 days (1x / day) | Rat | No effect | | Experimental value |
| Effects on fertility (Oral (stomach tube)) | NOAEL | Equivalent to OECD 416 | > 900 mg/kg bw/day | 13 days (1x / day) | Rabbit (female) | No effect | | Experimental value |

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NOVA TITAN STICK

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|----------|------------------|----------------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 180 mg/kg bw/day | 13 days (gestation, daily) | Rabbit | No effect | | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 60 mg/kg bw/day | 13 days (gestation, daily) | Rabbit | No effect | | Experimental value |
| Effects on fertility (Oral (stomach tube)) | NOEL | OECD 416 | 750 mg/kg bw/day | 238 day(s) | Rat (male / female) | No effect | | Experimental value |

zinc sulphide

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|------------|------------------------------|-------------------|----------------------------|------------|-----------------------------|-------------------------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | 42.5 mg/kg bw/day | 10 days (gestation, daily) | Rat | No effect | | Read-across |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | 42.5 mg/kg bw/day | 10 days (gestation, daily) | Rat | No effect | | Read-across |
| Effects on fertility (Oral (diet)) | Dose level | | 4000 ppm | 30 day(s) - 32 day (s) | Rat (male) | Reduction in sperm motility | Male reproductive organ | Read-across |

formaldehyde/aniline, polymer, hydrogenated

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|----------|--------------------|----------------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | > 280 mg/kg bw/day | 15 days (gestation, daily) | Rat | No effect | | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | > 280 mg/kg bw/day | 15 days (gestation, daily) | Rat | No effect | | Experimental value |
| Effects on fertility (Oral (stomach tube)) | NOAEL | OECD 421 | 280 mg/kg bw/day | | Rat (male / female) | No effect | | Experimental value |

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

NOVA TITAN STICK

Judgement is based on the relevant ingredients
Not classified for aspiration toxicity

Toxicity other effects

NOVA TITAN STICK

No (test)data on the mixture available

Chronic effects from short and long-term exposure

NOVA TITAN STICK

Skin rash/inflammation.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

NOVA TITAN STICK

No (test)data on the mixture available

Classification is based on the relevant ingredients

Talc (Mg₃H₂(SiO₃)₄)

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------------|------------|-----------|-------------|-------------|------------------|---------------------|
| Acute toxicity fishes | LC50 | ECOSAR v1.00 | 89581 mg/l | 96 h | Pisces | | Fresh water | QSAR |
| Acute toxicity crustacea | LC50 | ECOSAR v1.00 | 36812 mg/l | 48 h | Daphnia sp. | | Fresh water | QSAR |
| Toxicity algae and other aquatic plants | EC50 | ECOSAR v1.00 | 7203 mg/l | 96 h | Algae | | Fresh water | QSAR |
| | NOEC | ECOSAR v1.00 | 918 mg/l | 30 day(s) | Algae | | Fresh water | QSAR |
| Long-term toxicity fish | NOEC | ECOSAR v1.00 | 5980 mg/l | 30 day(s) | Pisces | | Fresh water | QSAR |
| Long-term toxicity aquatic crustacea | NOEC | ECOSAR v1.00 | 1460 mg/l | 30 day(s) | Daphnia sp. | | Fresh water | QSAR |

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NOVA TITAN STICK

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|------------|-----------|---------------------------|--------------------|------------------|---|
| Acute toxicity fishes | LC50 | OECD 203 | 1.8 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EC50 | Equivalent to OECD 202 | 1.7 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | EC50 | EPA 660/3 - 75/009 | > 11 mg/l | 72 h | Selenastrum capricornutum | Static system | Fresh water | Experimental value; Growth rate |
| | NOEC | EPA 660/3 - 75/009 | 4.2 mg/l | 72 h | Selenastrum capricornutum | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity aquatic crustacea | NOEC | Equivalent to OECD 211 | 0.3 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; GLP |
| Toxicity aquatic micro-organisms | IC50 | | > 100 mg/l | 3 h | Activated sludge | | | Experimental value; Respiration |

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------------------|----------|-----------|---------------------------|---------------|------------------|---|
| Acute toxicity fishes | LC50 | | 1.3 mg/l | 96 h | Pisces | | | Literature study |
| Acute toxicity crustacea | EC50 | OECD 202 | 2 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | EC50 | EPA 660/3 - 75/009 | 9.4 mg/l | 72 h | Selenastrum capricornutum | Static system | Fresh water | Experimental value; Biomass |
| Long-term toxicity aquatic crustacea | NOEC | | 0.3 mg/l | 21 day(s) | Daphnia sp. | | | Literature study |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|-----------|----------|---------------------------------|--------------------|------------------|---------------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 7.07 mg/l | 96 h | Danio rerio | Semi-static system | Fresh water | Read-across; GLP |
| Acute toxicity crustacea | EC50 | OECD 202 | 5.18 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Read-across; GLP |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | 4.11 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | | | | | | | | Data waiving |

zinc sulphide

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|-------------|----------|-------------------------|---------------|------------------|-------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | > 0.25 mg/l | 96 h | Danio rerio | Static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | LC50 | OECD 202 | > 29 µg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | > 13 µg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; GLP |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | | | | | | | | Data waiving |
| Toxicity aquatic micro-organisms | | | | | | | | Data waiving |

formaldehyde/aniline, polymer, hydrogenated

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------------|------------|----------|-------------------------|---------------|------------------|---------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 63 mg/l | 96 h | Poecilia reticulata | Static system | Fresh water | Experimental value |
| Acute toxicity crustacea | EC50 | OECD 202 | 15.4 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value |
| Toxicity algae and other aquatic plants | EC50 | EU Method C.3 | 43.94 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value |
| | EC10 | EU Method C.3 | 1.2 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value |
| Toxicity aquatic micro-organisms | EC50 | EU Method C.11 | 186.7 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value |

Conclusion

Toxic to aquatic life with long lasting effects.

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NOVA TITAN STICK

12.2. Persistence and degradability

Talc (Mg₃H₂(SiO₃)₄)

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|----------|------------------------|---------------------|
| AOPWIN v1.92 | 18.602 h | 1.5E6 /cm ³ | QSAR |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-------------------------|-----------|---------------------|
| OECD 301F | 5 %; Oxygen consumption | 28 day(s) | Experimental value |

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-------------------------|-----------|---------------------|
| OECD 301F | 5 %; Oxygen consumption | 28 day(s) | Experimental value |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301D | 15 %; Oxygen consumption | 28 day(s) | Experimental value |

zinc sulphide

Biodegradation water

| Method | Value | Duration | Value determination |
|--------|-------|----------|---------------------|
| | | | Data waiving |

Half-life water (t_{1/2} water)

| Method | Value | Primary degradation/mineralisation | Value determination |
|--------|-------|------------------------------------|---------------------|
| | | | Data waiving |

formaldehyde/aniline, polymer, hydrogenated

Biodegradation water

| Method | Value | Duration | Value determination |
|--------|-------|-----------|---------------------|
| Other | 0 % | 28 day(s) | Experimental value |

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

NOVA TITAN STICK

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

Talc (Mg₃H₂(SiO₃)₄)

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------------|------------|----------|---------|---------------------|
| BCF | BCFBAF v3.01 | 3.162 l/kg | | | QSAR |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|----------------------------|-------|-------------|---------------------|
| | Not applicable (inorganic) | | | |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|------------------|----------|---------|---------------------|
| BCF | | 31; Fresh weight | | | QSAR |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-----------|-------------|---------------------|
| OECD 117 | | 2.6 - 3.8 | 25 °C | Experimental value |

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | 3 | 25 °C | Estimated value |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------------|---------------------------------------|----------|---------|---------------------|
| BCF | BCFBAF v3.01 | 70.8 l/kg - 492 l/kg; Fresh weight | | | QSAR |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|------------|-------------|---------------------|
| OECD 117 | | 0.3 - 3.66 | 25 °C | Experimental value |

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NOVA TITAN STICK

zinc sulphide

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|--------------------------|-----------|------------------|---------------------|
| BCF | | 38 - 28960; Fresh weight | 28 day(s) | Palaemon elegans | Experimental value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|----------------|-------|-------------|---------------------|
| | Not applicable | | | |

formaldehyde/aniline, polymer, hydrogenated

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|-----------|---------|------------|-----------------|---------------------|
| BCF | OECD 305C | 18 - 22 | 18 week(s) | Cyprinus carpio | Experimental value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|---------------|--------|-------|-------------|---------------------|
| EU Method A.8 | | 2.68 | 21 °C | Experimental value |

triethylenetetramine

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| KOWWIN | | -2.65 | | Estimated value |

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

Talc (Mg₃H₂(SiO₃)₄)

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 0 % | 0 % | 39.3 % | 56 % | 4.72 % | QSAR |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 2.7 | QSAR |

fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|---------------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 4.934 - 9.909 | Calculated value |

zinc sulphide

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| | | | Data waiving |

formaldehyde/aniline, polymer, hydrogenated

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|------------------------|---------------|---------------------|
| log Koc | Equivalent to OECD 121 | 2.919 - 4.204 | Experimental value |

triethylenetetramine

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 1.885 | Calculated value |

Conclusion

Contains component(s) that adsorb(s) into the soil

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Groundwater

Groundwater pollutant

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Talc (Mg₃H₂(SiO₃)₄)

Water ecotoxicity pH

pH shift

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Groundwater

Groundwater pollutant

zinc sulphide

Groundwater

Groundwater pollutant

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Not classified as hazardous waste when part A and part B are mixed and are fully cured. Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point. Contains an organic halogen which may add to the AOX value.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

| | |
|-----------|------|
| UN number | 3077 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|--|
| Proper shipping name | environmentally hazardous substance, solid, n.o.s. (bis-[4-(2,3-epoxipropoxy)phenyl]propane) |
|----------------------|--|

14.3. Transport hazard class(es)

| | |
|------------------------------|----|
| Hazard identification number | 90 |
| Class | 9 |
| Classification code | M7 |

14.4. Packing group

| | |
|---------------|-----|
| Packing group | III |
| Labels | 9 |

14.5. Environmental hazards

| | |
|--|-----|
| Environmentally hazardous substance mark | yes |
|--|-----|

14.6. Special precautions for user

| | |
|--------------------|--|
| Special provisions | 274 |
| Special provisions | 335 |
| Special provisions | 375 |
| Special provisions | 601 |
| Limited quantities | Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg (gross mass). |
| Specific mention | Within the meaning of the packing requirements this substance is considered as a liquid |

Rail (RID)

14.1. UN number

| | |
|-----------|------|
| UN number | 3077 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|--|
| Proper shipping name | environmentally hazardous substance, solid, n.o.s. (bis-[4-(2,3-epoxipropoxy)phenyl]propane) |
|----------------------|--|

14.3. Transport hazard class(es)

| | |
|------------------------------|----|
| Hazard identification number | 90 |
| Class | 9 |

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| | |
|---|--|
| Classification code | M7 |
| 14.4. Packing group | |
| Packing group | III |
| Labels | 9 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | 274 |
| Special provisions | 335 |
| Special provisions | 375 |
| Special provisions | 601 |
| Limited quantities | Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg (gross mass). |
| Specific mention | Within the meaning of the packing requirements this substance is considered as a liquid |

Inland waterways (ADN)

| | |
|---|--|
| 14.1. UN number/ID number | |
| UN number/ID number | 3077 |
| 14.2. UN proper shipping name | |
| Proper shipping name | environmentally hazardous substance, solid, n.o.s. (bis-[4-(2,3-epoxipropoxy)phenyl]propane) |
| 14.3. Transport hazard class(es) | |
| Class | 9 |
| Classification code | M7 |
| 14.4. Packing group | |
| Packing group | III |
| Labels | 9 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | 274 |
| Special provisions | 335 |
| Special provisions | 375 |
| Special provisions | 601 |
| Limited quantities | Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg (gross mass). |
| Specific mention | Within the meaning of the packing requirements this substance is considered as a liquid |

Sea (IMDG/IMSBC)

| | |
|--|--|
| 14.1. UN number | |
| UN number | 3077 |
| 14.2. UN proper shipping name | |
| Proper shipping name | environmentally hazardous substance, solid, n.o.s. (bis-[4-(2,3-epoxipropoxy)phenyl]propane) |
| 14.3. Transport hazard class(es) | |
| Class | 9 |
| 14.4. Packing group | |
| Packing group | III |
| Labels | 9 |
| 14.5. Environmental hazards | |
| Marine pollutant | P |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | 274 |
| Special provisions | 335 |
| Special provisions | 966 |
| Special provisions | 967 |
| Special provisions | 969 |
| Limited quantities | Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg (gross mass). |
| Specific mention | Within the meaning of the packing requirements this substance is considered as a liquid |
| 14.7. Maritime transport in bulk according to IMO instruments | |
| Annex II of MARPOL 73/78 | Not applicable |

Air (ICAO-TI/IATA-DGR)

| | |
|--------------------------------------|------|
| 14.1. UN number/ID number | |
| UN number/ID number | 3077 |
| 14.2. UN proper shipping name | |

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| | |
|--|--|
| Proper shipping name | environmentally hazardous substance, solid, n.o.s. (bis-[4-(2,3-epoxipropoxy)phenyl]propane) |
| 14.3. Transport hazard class(es) | |
| Class | 9 |
| 14.4. Packing group | |
| Packing group | III |
| Labels | 9 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | A158 |
| Special provisions | A179 |
| Special provisions | A197 |
| Special provisions | A215 |
| Special provisions | A97 |
| Specific mention | Within the meaning of the packing requirements this substance is considered as a liquid |
| Passenger and cargo transport | |
| Limited quantities: maximum net quantity per packaging | 30 kg G |

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| < 1 % | |
| < 19 g/l | |

Directive 2012/18/EU (Seveso III)

Threshold values under normal circumstances

| Substance or category | Low tier (tonnes) | Top tier (tonnes) | Group | For this substance or mixture the summation rule has to be applied for: |
|---|-------------------|-------------------|-------|---|
| E2 Hazardous to the Aquatic Environment in Category Chronic 2 | 200 | 500 | None | Eco-toxicity |

European drinking water standards (98/83/EC and 2020/2184)

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

| Parameter | Parametric value | Note | Reference |
|-----------------|------------------|------|--|
| Epichlorohydrin | 0.1 µg/l | | Listed in Annex I, Part B, of Directive (EU) 2020/2184 on the quality of water intended for human consumption. |
| Bisphenol A | 2.5 µg/l | | Listed in Annex I, Part B, of Directive (EU) 2020/2184 on the quality of water intended for human consumption. |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|--|--|---|
| <ul style="list-style-type: none"> · bis-[4-(2,3-epoxipropoxy)phenyl]propane · reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) · formaldehyde/aniline, polymer, hydrogenated · triethylenetetramine | Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public |

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| | | |
|---|---|--|
| <ul style="list-style-type: none"> · bis-[4-(2,3-epoxipropoxy)phenyl]propane · reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) · triethylenetetramine | <p>Substances falling within one or more of the following points:</p> <p>(a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:</p> <ul style="list-style-type: none"> — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye irritant category 2 <p>(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council</p> <p>(c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.</p> <p>The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.</p> | <p>are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p> <p>Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081</p> |
|---|---|--|

National legislation Belgium

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No data available

National legislation The Netherlands

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| | |
|----------------------|---|
| Waterbezwaarlijkheid | Z (1); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

National legislation France

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No data available

National legislation Germany

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| | |
|--|--|
| WGK | 3; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
| Talc (Mg3H2(SiO3)4) | |
| TA-Luft | 5.2.1 |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | |
| TA-Luft | 5.2.5 |
| reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) | |
| TA-Luft | 5.2.5/1 |
| fatty acids, C18-unsaturated, dimers, reaction products with polyethylenepolyamines | |
| TA-Luft | 5.2.5/1 |
| zinc sulphide | |
| TA-Luft | 5.2.1 |
| formaldehyde/aniline, polymer, hydrogenated | |
| TA-Luft | 5.2.5/1 |
| triethylenetetramine | |
| TA-Luft | 5.2.5/1 |

National legislation Austria

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No data available

National legislation United Kingdom

NOVA TITAN STICK

No data available

Other relevant data

NOVA TITAN STICK

No data available

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Talc (Mg₃H₂(SiO₃)₄)

| | |
|-----------------------|---|
| IARC - classification | 3; Talc |
| TLV - Carcinogen | Talc: Containing no asbestos fibers; A4 |
| | Talc: Containing asbestos fibers; A1 |

bis-[4-(2,3-epoxipropoxy)phenyl]propane

| | |
|-----------------------|---------------------------------|
| IARC - classification | 3; Bisphenol a diglycidyl ether |
|-----------------------|---------------------------------|

15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

- H301 Toxic if swallowed.
- 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.
- H373 May cause damage to organs (kidneys) through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

| | |
|--------------|---|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BEI | Biological Exposure Indices |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC10 | Effect Concentration 10 % |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| GLP | Good Laboratory Practice |
| LC0 | Lethal Concentration 0 % |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| LOAEC/LOAEL | Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level |
| NOAEC/NOAEL | No Observed Adverse Effect Concentration/No Observed Adverse Effect Level |
| NOEC/NOEL | No Observed Effect Concentration/No Observed Effect Level |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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