SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

NOVALUBE

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

1.1. Product identifier

| Product name | : NOVALUBE |
|---------------------------|----------------------------|
| 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 Lubricating grease

1.2.2 Uses advised against

No uses advised against

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@tec7.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 | | | |
| Eye Dam. | category 1 | H318: Causes serious eye damage. | |
| Aquatic Acute | category 1 | H400: Very toxic to aquatic life. | |
| Aquatic Chronic | category 2 | H411: Toxic to aquatic life with long lasting effects. | |

2.2. Label elements



| Danger |
|--|
| |
| Causes serious eye damage. |
| Very toxic to aquatic life with long lasting effects. |
| |
| Wear eye protection |
| Avoid release to the environment. |
| IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. |
| Continue rinsing. |
| Immediately call a POISON CENTER/doctor. |
| |

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 2;3 Revision number: 0700

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P391

Collect spillage.

2.3. Other hazards

No other hazards known

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 |
|---|-------------------------|---|--|------------|-------------|
| calciumdihydroxide 01-2119475151-45 | 1305-62-0 215-137-3 | C<9.99 % | Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335 | (1)(2) | Constituent |
| zinc oxide 01-2119463881-32 | 1314-13-2 215-222-5 | C<3.5 % | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | (1)(2) | Constituent |
| aluminium powder (stabilised) 01-2119529243-45 | 7429-90-5 231-072-3 | 2.5% <c<5%< td=""><td>Flam. Sol. 1; H228 Water-react. 2; H261</td><td>(1)(2)(10)</td><td>Constituent</td></c<5%<> | Flam. Sol. 1; H228 Water-react. 2; H261 | (1)(2)(10) | Constituent |
| copper | 7440-50-8 231-159-6 | 2.5% <c<5%< td=""><td>Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411</td><td>(1)(2)(9)</td><td>Constituent</td></c<5%<> | Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 | (1)(2)(9) | Constituent |
| talc | 14807-96-6 238-877-9 | | | (2) | Constituent |

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(9) M-factor, see heading 16

(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:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms After inhalation: No effects known. 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:

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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

Upon combustion CO and CO2 are formed and formation of metallic fumes.

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. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 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

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 heading 13.

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 normal hygiene standards. Do not discharge the waste into the drain. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in a dry area. Keep only in the original container. Store at room temperature. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids.

- 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.

EU

| Calcium dihydroxide | Time-weighted average exposure limit 8 h (Indicative occupational | 1 mg/m³ |
|---------------------|---|---------|
| | exposure limit value) | |
| | Short time value (Indicative occupational exposure limit value) | 4 mg/m³ |
| | - | |

Belgium

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| Aluminium (métal et composés insolubles, fraction alvéolaire) | Time-weighted average exposure limit 8 h | 1 mg/m³ |
|---|--|----------------------------|
| Calcium (hydroxyde de) | Time-weighted average exposure limit 8 h | 5 mg/m³ |
| Cuivre (fumées) (en Cu) | Time-weighted average exposure limit 8 h | 0.2 mg/m³ |
| Cuivre (poussières et brouillards de) (en Cu) | Time-weighted average exposure limit 8 h | 1 mg/m³ |
| Talc (sans fibre d'amiante) | Time-weighted average exposure limit 8 h | 2 mg/m³ |
| Zinc (oxyde de) (fumées) | Time-weighted average exposure limit 8 h | 2 mg/m³ |
| | Short time value | 10 mg/m³ |
| The Netherlands | | |
| Calciumdihydroxide | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 5 mg/m³ |
| Koper en anorganische koperverbindingen (inhaleerbaar) | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 0.1 mg/m³ |
| Talk (respirabel) | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 0.25 mg/m ³ |
| France | | |
| Aluminium (métal) | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 10 mg/m³ |
| Aluminium (pulvérulent) | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 5 mg/m³ |
| Calcium (hydroxyde de) | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 5 mg/m ³ |
| Cuivre (fumées) | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 0.2 mg/m ³ |
| Cuivre (poussières), en Cu | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 1 mg/m ³ |
| | Short time value (VL: Valeur non réglementaire indicative) | 2 mg/m³ |
| Zinc (oxyde de, fumées) | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 5 mg/m³ |
| Zinc (oxyde de, poussières) | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 10 mg/m³ |
| Germany | | |
| Calciumdihydroxid | Time-weighted average exposure limit 8 h (TRGS 900) | 1 mg/m³ |
| | | |
| | 1 | |
| Aluminium metal inhalable dust | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 10 mg/m ³ |
| Aluminium metal respirable dust | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 4 mg/m³ |
| Calcium hydroxide | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 5 mg/m³ |
| Copper and compounds: dusts and mists (as Cu) | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1 mg/m³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 2 mg/m ³ |
| Copper fume | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 0.2 mg/m ³ |
| Talc, respirable dust | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1 mg/m³ |
| USA (TLV-ACGIH) | | |
| Aluminium, Metal | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 1 mg/m ³ (R) |
| Calcium hydroxide | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 5 mg/m^3 |
| Copper fume | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 0.2 mg/m^3 |
| Copper dust & mists, as Cu | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 1 mg/m ³ |
| Talc (containing asbestos fibers) | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 0.1 fibers/cm ³ |
| Talc (containing no asbestos fibers) | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 2 mg/m ³ (R,E) |
| | | |
| Zinc oxide | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 2 mg/m^3 (R) |
| | Short time value (TLV - Adopted Value) | 10 mg/m ³ (R) |

phase-contrast illumination

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 |
|---------------|-------|--------|
| Aluminium | NIOSH | 7013 |
| Aluminum (Al) | NIOSH | 7302 |
| Aluminum (Al) | NIOSH | 7304 |

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| Product name | Test | Number | |
|---|-------|---------|--|
| Aluminum (Al) | NIOSH | 7306 | |
| Aluminum (Al) | NIOSH | 8310 | |
| Aluminum (Elements) | NIOSH | 7300 | |
| Aluminum (Elements, aqua regia ashing) | NIOSH | 7301 | |
| Aluminum (Elements, hot block/HCl/HNO3 digestion) | NIOSH | 7303 | |
| Aluminum | OSHA | ID121 | |
| Calciumdihydroxide | NIOSH | 7020 | |
| Copper (Cu) | NIOSH | 7302 | |
| Copper (Cu) | NIOSH | 7304 | |
| Copper (Cu) | NIOSH | 7306 | |
| Copper (Cu) | NIOSH | 8005 | |
| Copper (Cu) | NIOSH | 8310 | |
| Copper (Elements on wipes) | NIOSH | 9102 | |
| Copper (Elements) | NIOSH | 7300 | |
| Copper (Elements, aqua regia ashing) | NIOSH | 7301 | |
| Copper (Elements, hot block/HCl/HNO3 digestion) | NIOSH | 7303 | |
| Copper Dust and fume | NIOSH | 7029 | |
| Copper | OSHA | 1006 | |
| Copper | OSHA | ID 105 | |
| Copper | OSHA | ID 121 | |
| Copper | OSHA | ID 125G | |
| Copper | OSHA | ID 206 | |
| Zinc (Elements) | NIOSH | 7300 | |
| Zinc (Zn) | NIOSH | 7302 | |
| Zinc (Zn) | NIOSH | 7304 | |
| Zinc Oxide | NIOSH | 7030 | |
| Zinc Oxide | NIOSH | 7502 | |
| Zinc Oxide | OSHA | ID 121 | |
| Zinc Oxide | OSHA | ID 143 | |

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

| alciumdihydroxide | | | |
|------------------------------------|---------------------------------------|------------------------|--------|
| Effect level (DNEL/DMEL) | Туре | Value | Remark |
| DNEL | Long-term local effects inhalation | 1 mg/m³ | |
| | Acute local effects inhalation | 4 mg/m³ | |
| <u>nc oxide</u> | | | |
| Effect level (DNEL/DMEL) | Туре | Value | Remark |
| DNEL | Long-term systemic effects inhalation | 5 mg/m³ | |
| | Long-term local effects inhalation | 0.5 mg/m ³ | |
| | Long-term systemic effects dermal | 83 mg/kg bw/day | |
| <u>uminium powder (stabilised)</u> | | | |
| Effect level (DNEL/DMEL) | Туре | Value | Remark |
| DNEL | Long-term local effects inhalation | 3.72 mg/m ³ | |
| opper | | | |
| Effect level (DNEL/DMEL) | Туре | Value | Remark |
| DNEL | Long-term systemic effects dermal | 137 mg/kg bw/day | |
| | Acute systemic effects dermal | 273 mg/m ³ | |
| NEL/DMEL - General populatio | <u>n</u> | • = | |
| <u>llciumdihydroxide</u> | | | |
| Effect level (DNEL/DMEL) | Туре | Value | Remark |
| DNEL | Long-term local effects inhalation | 1 mg/m ³ | |
| | Acute local effects inhalation | 4 mg/m ³ | |
| <u>nc oxide</u> | | | |
| Effect level (DNEL/DMEL) | Туре | 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 | |
| uminium powder (stabilised) | | | |
| Effect level (DNEL/DMEL) | Туре | Value | Remark |
| DNEL | Long-term systemic effects inhalation | 3.95 mg/m ³ | |
| opper | · · | • - | • |
| Effect level (DNEL/DMEL) | Туре | Value | Remark |
| DNEL | Long-term systemic effects dermal | 137 mg/kg bw/day | |
| | Acute systemic effects dermal | 273 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.041 mg/kg bw/day | |

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| PNEC | | |
|-------------------------------|-------------------------|--------|
| <u>calciumdihydroxide</u> | | |
| Compartments | Value | Remark |
| Fresh water | 0.49 mg/l | |
| Marine water | 0.32 mg/l | |
| Aqua (intermittent releases) | 0.49 mg/l | |
| STP | 3 mg/l | |
| Soil | 1080 mg/kg soil dw | |
| zinc oxide | | |
| 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 | |
| aluminium powder (stabilised) | | |
| Compartments | Value | Remark |
| STP | 20 mg/l | |
| copper | | |
| Compartments | Value | Remark |
| Fresh water | 7.8 μg/l | |
| Salt water | 5.2 μg/l | |
| STP | 230 μg/l | |
| Fresh water sediment | 87 mg/kg sediment dw | |
| Marine water sediment | 676 mg/kg sediment dw | |
| Soil | 65 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. 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 normal hygiene standards. 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 (EN374).

| | Measured breakthrough time | Thickness | Protection index |
|----------------|-------------------------------|-----------|------------------|
| nitrile rubber | > 480 minutes | 0.4 mm | Class 6 |

- materials (excellent resistance)

Nitrile rubber.

- materials (poor resistance)

Leather.

c) Eye protection:

Safety glasses.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical form | Paste |
|---------------------|--------------------------|
| Odour | Characteristic odour |
| Odour threshold | No data available |
| Colour | Grey |
| Particle size | No data available |
| Explosion limits | No data available |
| Flammability | Non-flammable |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | No data available |
| Kinematic viscosity | No data available |

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| Melting point | No data available | | | | | |
|---------------------------|--|--|--|--|--|--|
| Boiling point | No data available | | | | | |
| Evaporation rate | No data available | | | | | |
| Relative vapour density | Not applicable | | | | | |
| Vapour pressure | ıre No data available | | | | | |
| Solubility | Water ; insoluble | | | | | |
| Relative density | 1.2 | | | | | |
| Decomposition temperature | No data available | | | | | |
| Auto-ignition temperature | > 200 °C | | | | | |
| Flash point | 170 °C ; ISO 2592 ; Solid | | | | | |
| Explosive properties | No chemical group associated with explosive properties | | | | | |
| Oxidising properties | No chemical group associated with oxidising properties | | | | | |
| рН | No data available | | | | | |

9.2. Other information Absolute density

1200 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

Temperature above flashpoint: higher fire/explosion hazard.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

Reacts with (some) acids/bases and with (strong) oxidizers.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

Oxidizing agents, (strong) acids.

10.6. Hazardous decomposition products

Upon combustion CO and CO2 are formed and formation of metallic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

NOVALUBE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

calciumdihydroxide

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-----------------------|-----------|---------------------------|------------------|---------------|-------------------------|------------------------|--------|
| Oral | LD50 | OECD 425 | > 2000 mg/kg bw | | Rat (female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2500 mg/kg bw | 24 h | Rabbit (male/female) | Experimental value | |
| in <u>c oxide</u> | | | | | | | |
| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
| Oral | LD50 | Equivalent to OECD 401 | > 5000 mg/kg | | Rat (male/female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | 24 h | Rat (male/female) | Experimental value | |
| Inhalation (dust) | LC50 | Equivalent to OECD 403 | > 5.7 mg/l | 4 h | Rat (male/female) | Experimental value | |
| luminium powder (stab | ilised) | | | | • | | |
| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
| Oral | LD50 | Equivalent to OECD 401 | > 15900 mg/kg bw | | Rat (male/female) | Read-across | |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | > 888 mg/m³ | 4 h | Rat (male/female) | Experimental value | |
| n for revision: 2;3 | | | | | Publication date: 200 | 3-10-20 | |

Date of revision: 2018-05-15

| CO | n | n | ρ | r | |
|----|---|---|---|---|--|

| p | <u>per</u> | - | | | | | - | |
|---|-------------------|-----------|----------|--------------|---------------|-------------------|---------------|--------|
| | Route of exposure | Parameter | Method | Value | Exposure time | Species | Value | Remark |
| | | | | | | | determination | |
| | Oral | LD50 | OECD 401 | 482 mg/kg bw | | Rat (male/female) | Experimental | |
| | | | | | | | value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

NOVALUBE

No (test)data on the mixture available

Classification is based on the relevant ingredients

| alciumdihydroxide | - | | | | | - | |
|-----------------------------------|----------------|----------|---------------|---------------------|----------------------------------|------------------------|--------|
| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
| Eye | Irritating | OECD 405 | 4 h | 1; 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Irritating | OECD 404 | 4 h | 1; 24; 48; 72 hours | Rabbit | Experimental value | |
| inc oxide | • | | | ł | | • | |
| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
| Еуе | Not irritating | OECD 405 | 24 h | 24; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | OECD 404 | 24 h | 24 hours | Rabbit | Experimental value | |
| Not applicable (in vitro test) | Not corrosive | OECD 431 | 3 minutes | , | Reconstructed human epidermis | Experimental value | |
| luminium powder (st | abilised) | - | | | | | |
| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
| Eye | Not irritating | Other | | 24; 48; 72 hours | Rabbit | Read-across | |
| | | | | | | | |

24; 48; 72 hours

Rabbit

Read-across

Equivalent to OECD 24 h

404

Conclusion

Skin

Causes serious eye damage.

Not classified as irritating to the skin

Respiratory or skin sensitisation

NOVALUBE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Not irritating

<u>zinc oxide</u>

| Route of exposure | Result | Method | • | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|-------------------|------------------------|---------------------------|------------------------|---------------------|--------|
| Skin | Not sensitizing | OECD 406 | | | Guinea pig (female) | Experimental value | |
| Skin | Not sensitizing | Human observation | 2 days (continuous) | 72 hours | Human | Experimental value | |

aluminium powder (stabilised)

| Route of exposure | Result | Method | • | Observation time point | Species | Value determination | Remark |
|-------------------------------|-----------------|--------|---|---------------------------|-------------------|---------------------|--------|
| Skin | Not sensitizing | Other | | 24 hours | Guinea pig (male) | Read-across | |
| Intratracheal instillation | Not sensitizing | | | | Mouse (male) | Read-across | |

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

NOVALUBE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determinatio |
|--------------------------|-----------|---------------------------|---------------------|---------|---|--|----------------------|-----------------------|
| Oral (diet) | NOEL | OECD 408 | 3000 ppm | | No effect | | Rat (male/female) | Read-across |
| Inhalation (aerosol |) NOAEL | OECD 413 | 1.5 mg/m³ air | | No effect | 13 weeks (6h/day, 5 days/week) | Rat (male) | Experimental value |
| uminium powder (sta | abilised) | | | | | | | |
| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determinatio |
| Oral (drinking water) | NOAEL | Equivalent to OECD 452 | 30 mg/kg bw/day | General | No effect | | Rat (male/female) | Read-across |
| Oral (drinking water) | LOAEL | Equivalent to OECD 452 | 100 mg/kg bw/day | General | Myasthenia | / (- / | Rat (male/female) | Read-across |
| Inhalation (dust) | LOAEC | Equivalent to OECD 413 | 50 mg/m³ air | Lungs | Lung tissue affection/degen eration | 25 weeks (6h/day, 5 days/week) - 52 weeks (6h/day, 5 days/week) | Rat | Experimental value |

calciumdihydroxide

| Result | Method | Test substrate | Effect | Value determination |
|------------------------------|------------------------|--------------------------|-----------|---------------------|
| Negative with metabolic | OECD 471 | Bacteria (S.typhimurium) | | Experimental value |
| activation, negative without | | | | |
| metabolic activation | | | | |
| <u>nc oxide</u> | | | | |
| Result | Method | Test substrate | Effect | Value determination |
| Negative with metabolic | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value |
| activation, negative without | | | | |
| metabolic activation | | | | |
| uminium powder (stabilised) | | | | |
| Result | Method | Test substrate | Effect | Value determination |
| Positive without metabolic | Equivalent to OECD 473 | Human lymphocytes | | Read-across |
| activation | | | | |
| Negative | OECD 476 | Mouse (lymphoma L5178Y | No effect | Read-across |
| | | cells) | | |

Mutagenicity (in vivo)

NOVALUBE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>zinc oxide</u>

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------|----------|---------------|----------------|-------------|---------------------|
| Negative | OECD 474 | | Mouse (male) | Bone marrow | Experimental value |
| minium powder (stabilised) | | - | | | |
| Result | Method | Exposure time | Test substrate | Organ | Value determinatior |
| Positive | OECD 474 | 1 | Rat (female) | | Read-across |

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

NOVALUBE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

aluminium powder (stabilised)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | - 0- | Value determination |
|----------------------|-----------|----------|-------|--|---------|---|------|------------------------|
| Inhalation (dust) | LOAEC | OECD 413 | 3. | 25 weeks (6h/day, 5 days/week) - 52 weeks (6h/day, 5 days/week) | | Lung tissue affection/degene ration | . 0. | Experimental value |

Conclusion

Not classified for carcinogenicity

Reason for revision: 2;3

Publication date: 2003-10-20

Date of revision: 2018-05-15

Reproductive toxicity

NOVALUBE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>zinc oxide</u>

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---------------------------|------------|---------------------------|----------------------|--------------------------|----------------------|-----------|--------|------------------------|
| Developmental toxicity | NOAEC | OECD 414 | 7.5 mg/kg bw/day | 14 days (6h/day) | Rat | No effect | Foetus | Experimental value |
| Maternal toxicity | NOAEC | OECD 414 | 7.5 mg/kg bw/day | 14 days (6h/day) | Rat | No effect | | Experimental value |
| Effects on fertility | NOAEL (F1) | Equivalent to OECD 416 | 7.5 mg/kg bw/day | 22 weeks (daily) | Rat (male/female) | No effect | | Read-across |
| uminium powder (stabilise | ed) | | | | | | | |
| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
| Developmental toxicity | NOAEL | Equivalent to OECD 414 | 266 mg/kg bw/day | 10 day(s) | Rat | No effect | Foetus | Read-across |
| Effects on fertility | NOAEL | OECD 422 | 1000 mg/kg bw/day | 28 day(s) - 53 day(s) | Rat (male/female) | No effect | | Read-across |

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

NOVALUBE

No (test)data on the mixture available

Chronic effects from short and long-term exposure

NOVALUBE

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

NOVALUBE

No (test)data on the mixture available

Classification is based on the relevant ingredients

calciumdihydroxide

| | Parameter | Method | Value | Duration | Species | | Fresh/salt water | Value determination |
|---|-----------|----------|-------------|-----------|-------------------------------------|-----------------------|---------------------|-------------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 50.6 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EC50 | OECD 202 | 49.1 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | 184.57 mg/l | 72 h | Pseudokirchnerie Ila subcapitata | Static system | Fresh water | Experimental value; GLP |
| Long-term toxicity aquatic crustacea | NOEC | | 32 mg/l | 14 day(s) | - 0- 1 | Semi-static system | Salt water | Experimental value; Growth |
| Toxicity aquatic micro- organisms | EC50 | OECD 209 | 300.4 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value; GLP |

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|--|-----------|------------------|----------------------|-----------|-------------------------------------|------------------------|---------------------|---------------------------------|
| Acute toxicity fishes | LC50 | ASTM E729- 88 | 0.169 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Read-across; Zinc io |
| Acute toxicity crustacea | EC50 | OECD 202 | 1 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Zinc ion |
| Toxicity algae and other aquatic plants | IC50 | OECD 201 | 0.136 mg/l | 72 h | Pseudokirchnerie Ila subcapitata | Static system | Fresh water | Experimental value; Zinc ion |
| | NOEC | OECD 201 | 0.024 mg/l | 3 day(s) | Pseudokirchnerie Ila subcapitata | Static system | Fresh water | Experimental value; Zinc ion |
| Long-term toxicity fish | NOEC | OECD 215 | 0.039 mg/l | 30 day(s) | Oncorhynchus mykiss | Flow-through system | Fresh water | Read-across; Zinc ior |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 0.04 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Read-across; Zinc ior |
| Toxicity aquatic micro- organisms | EC50 | OECD 209 | > 1000 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value; GLP |
| uminium powder (stabilised) | | | | | | | | |
| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
| Acute toxicity fishes | LC50 | ASTM | > 218.64 mg/l | 96 h | Pimephales promelas | Semi-static system | Fresh water | Weight of evidence; GLP |
| pper | | | | | | | | |
| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
| Acute toxicity fishes | LC50 | | 68 μg/l - 94 μg/l | 96 h | Oncorhynchus mykiss | Flow-through system | Fresh water | Weight of evidence |
| Long-term toxicity fish | NOEC | | 11.4 μg/l | 45 day(s) | Oncorhynchus mykiss | Flow-through system | Fresh water | Experimental value |
| lc | | | | | | | | |
| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
| Acute toxicity fishes | LC50 | | > 100 g/l | 24 h | Brachydanio rerio | Semi-static system | | |

Conclusion

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No test data of component(s) available

12.3. Bioaccumulative potential

NOVALUBE

| Method | Remark | Value | Temperature | Value determination |
|---------------------------|------------------------------------|-------|---------------------------------|---------------------|
| | Not applicable (mixture) | | | |
| <u>calciumdihydroxide</u> | | | | |
| Log Kow | | | | |
| Method | Remark | Value | Temperature | Value determination |
| | No data available | | | |
| zinc oxide | | | | |
| Log Kow | | | | |
| Method | Remark | Value | Temperature | Value determination |
| | | 1.53 | | Estimated value |
| aluminium powder (s | <u>tabilised)</u> | | | |
| Log Kow | | | | |
| Method | Remark | Value | Temperature | Value determination |
| | No data available | | | |
| copper | | | | |
| | | | | |
| Log Kow | | | | |
| Log Kow Method | Remark | Value | Temperature | Value determination |
| - | Remark No data available | Value | Temperature | Value determination |
| Method | | Value | Temperature | Value determination |
| Method | | Value | Temperature | Value determination |
| Method onclusion | | Value | Temperature Publication date | |
| Method onclusion | | Value | | : 2003-10-20 |
| - | | Value | Publication date | : 2003-10-20 |

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

zinc oxide

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| log Koc | | 2.2 | Literature study |

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. Other adverse effects

NOVALUBE

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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)

calciumdihydroxide

Groundwater

Groundwater pollutant

<u>zinc oxide</u>

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

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).

12 01 12* (wastes from shaping and physical and mechanical surface treatment of metals and plastics: spent waxes and fats). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Recycle/reuse. 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.

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)

| UN number | 3077 |
|--|---|
| 14.2. UN proper shipping name | |
| Proper shipping name | Environmentally hazardous substance, solid, n.o.s. (copper) |
| 14.3. Transport hazard class(es) | |
| Hazard identification number | 90 |
| Class | 9 |
| Classification code | М7 |
| 14.4. Packing group | |
| Packing group | Ш |
| Labels | 9 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | 274 |
| Special provisions | 335 |
| n for revision: 2;3 | Publication date: 2003-10-20 |
| | Date of revision: 2018-05-15 |

| 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) |

Rail (RID)

| UN number | 3077 |
|--|--|
| 4.2. UN proper shipping name | |
| Proper shipping name | Environmentally hazardous substance, solid, n.o.s. (copper) |
| 4.3. Transport hazard class(es) | |
| Hazard identification number | 90 |
| Class | 9 |
| Classification code | M7 |
| 4.4. Packing group | |
| Packing group | III |
| Labels | 9 |
| 4.5. Environmental hazards | |
| Environmentally hazardous substance mark | yes |
| 4.6. 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) |

Inland waterways (ADN)

| L4.1. UN number | 2077 |
|--|--|
| UN number | 3077 |
| 14.2. UN proper shipping name | |
| Proper shipping name | Environmentally hazardous substance, solid, n.o.s. (copper) |
| 14.3. Transport hazard class(es) | |
| Class | 9 |
| Classification code | M7 |
| 14.4. Packing group | |
| Packing group | III |
| Labels | 9 |
| I4.5. 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) |

Sea (IMDG/IMSBC)

| UN number | 3077 |
|--|--|
| 4.2. UN proper shipping name | |
| Proper shipping name | Environmentally hazardous substance, solid, n.o.s. (copper) |
| 4.3. Transport hazard class(es) | |
| Class | 9 |
| 4.4. Packing group | |
| Packing group | |
| Labels | 9 |
| 4.5. Environmental hazards | |
| Marine pollutant | Р |
| Environmentally hazardous substance mark | yes |
| 4.6. 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) |

Reason for revision: 2;3

Publication date: 2003-10-20 Date of revision: 2018-05-15

NIOVALLIDE

| 14.7 Transport in bulk accordin | | /ALUBE |
|--|--|--|
| TT.7. Hansport in bulk accordin | ng to Annex II of Marpol and the IBC Code | |
| Annex II of MARPOL 73/78 | | Not applicable |
| Air (ICAO-TI/IATA-DGR) | | |
| 14.1. UN number | | |
| UN number | | 3077 |
| 14.2. UN proper shipping name Proper shipping name | | Environmentally hazardous substance, solid, n.o.s. (copper) |
| 14.3. Transport hazard class(es |) | Environmentally hazardous substance, solid, n.o.s. (copper) |
| Class | | 9 |
| 14.4. Packing group | | |
| Packing group | | |
| Labels 14.5. Environmental hazards | | 9 |
| Environmentally hazardous | substance mark | yes |
| 14.6. Special precautions for us | | |
| Special provisions | | A97 |
| Special provisions | | A158 |
| Special provisions Special provisions | | A179 A197 |
| | m net quantity per packaging | 30 kg G |
| TION 15: Regulator | | |
| VOC content < 75 % European drinking water stan | | Remark |
| aluminium powder (stabilis | | |
| Parameter | Parametric value Note | Reference |
| Aluminium | 200 μg/l | Listed in Annex I, Part C, of Directive 98/83/EC on the qualit water intended for human consumption. |
| and use of certain danger | ous substances, mixtures and articles. | |
| | Designation of the substance, of the group substances or of the mixture | o of Conditions of restriction |
| aluminium powder (stabilised) aluminium powder (stabilised) Mational legislation Belgium NOVALUBE | substances or of the mixture Substances classified as flammable gases | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aero ises 1, dispensers are intended for supply to the general public for entertainment and decorat purposes such as the following: • with — metallic glitter intended mainly for decoration, 2 2 or — artificial snow and frost, oric oric — whopee" cushions, erosols, |
| National legislation Belgium NOVALUBE No data available National legislation The Nethe NOVALUBE | substances or of the mixture Substances classified as flammable gases category 1 or 2, flammable liquids categor 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact water, emit flammable gases, category 1, 2 3, pyrophoric liquids category 1 or pyrophs solids category 1, regardless of whether th appear in Part 3 of Annex VI to that Regula or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aer ises 1, dispensers are intended for supply to the general public for entertainment and decorat purposes such as the following: with — metallic glitter intended mainly for decoration, 2 or — artificial snow and frost, oric — "whoopee" cushions, sition — imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs. Without prejudice to the application of other Community provisions on the classifica packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, leg and indelibly with: "For professional users only". By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to above bigness referred to an accessing the aerosol dispensers referred to above bigness referred to a bignessers referred to a bignessers referred to above bignessers referred to Article 8 (1a) of Council Directive 75/324/EEC. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the reference to a bignessers referred to an accessing the placed on the reference to accessing the placed on the refored to accessing the placed on the reference to accessing t |
| National legislation Belgium NOVALUBE No data available National legislation The Nethe | substances or of the mixture Substances classified as flammable gases category 1 or 2, flammable liquids categor 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact water, emit flammable gases, category 1, 2 3, pyrophoric liquids category 1 or pyroph solids category 1, regardless of whether th appear in Part 3 of Annex VI to that Regula or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aer ises 1, dispensers are intended for supply to the general public for entertainment and decorar purposes such as the following: with — metallic glitter intended mainly for decoration, 2 or — artificial snow and frost, oric — "whoopee" cushions, sition — imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs. Without prejudice to the application of other Community provisions on the classifica packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, leg and indelibly with: "For professional users only". By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to a the placed on the raisonal dispensers referred to above is placed on the raisonal dispensers referred to a specific dispensers referred to a placed on the raisonal dispensers referred to a specific dispensers referred to a placed on the raisonal dispensers referred to a specific dispensers referent dispensers referred to a specific dispensers referred to |
| National legislation Belgium NOVALUBE No data available National legislation The Nethe NOVALUBE | substances or of the mixture Substances classified as flammable gases category 1 or 2, flammable liquids categor 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact water, emit flammable gases, category 1, 2 3, pyrophoric liquids category 1 or pyrophs solids category 1, regardless of whether th appear in Part 3 of Annex VI to that Regula or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aer ises 1, dispensers are intended for supply to the general public for entertainment and decorat purposes such as the following: with — metallic glitter intended mainly for decoration, 2 or — artificial snow and frost, oric — "whoopee" cushions, sition — imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs. Without prejudice to the application of other Community provisions on the classifica packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, leg and indelibly with: "For professional users only". By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to above bigness referred to an a consult of the placed on the referred to Article 8 (1a) of Council Directive 75/ 324/EEC. |
| National legislation Belgium NOVALUBE No data available National legislation The Nethe NOVALUBE Waterbezwaarlijkheid National legislation France NOVALUBE | substances or of the mixture Substances classified as flammable gases category 1 or 2, flammable liquids categor 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact water, emit flammable gases, category 1, 2 3, pyrophoric liquids category 1 or pyrophs solids category 1, regardless of whether th appear in Part 3 of Annex VI to that Regula or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aer ises 1, dispensers are intended for supply to the general public for entertainment and decorat purposes such as the following: with — metallic glitter intended mainly for decoration, 2 or — artificial snow and frost, oric — "whoopee" cushions, sition — imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs. Without prejudice to the application of other Community provisions on the classifica packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, leg and indelibly with: "For professional users only". By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to above bigness referred to an accessing the aerosol dispensers referred to above bigness referred to a bignessers referred to a bignessers referred to above bignessers referred to access of the aerosol dispensers referred to above bignessers referred to access of the placed on the referred to access of the placed on th |

National legislation Germany

| NOVALUBE | |
|-----------------------------|---|
| WGK | 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017 |
| <u>calciumdihydroxide</u> | |
| TA-Luft | 5.2.1 |
| TRGS900 - Risiko der | Calciumdihydroxid; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des |
| Fruchtschädigung | biologischen Grenzwertes nicht befürchtet zu werden |
| zinc oxide | |
| TA-Luft | 5.2.1 |
| aluminium powder (stabilise | 20 |
| TA-Luft | 5.2.1 |
| talc | |
| TA-Luft | 5.2.1 |

National legislation United Kingdom

NOVALUBE

No data available

Other relevant data

NOVALUBE

No data available

aluminium powder (stabilised)

| 2 | | | | |
|----------|-----------------------|--|--|--|
| | TLV - Carcinogen | Aluminium, Metal; A4 | | |
| <u>t</u> | alc | | | |
| | TLV - Carcinogen | Talc (containing no asbestos fibers); A4 | | |
| | | Talc (containing asbestos fibers); A1 | | |
| | IARC - classification | 3; Talc | | |

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information Full text of any H-statements referred to under heading 3:

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H302 Harmful if swallowed.

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

(*) INTERNAL CLASSIFICATION BY BIG CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe) DMEL **Derived Minimal Effect Level** DNEL Derived No Effect Level EC50 Effect Concentration 50 % ErC50 EC50 in terms of reduction of growth rate Lethal Concentration 50 % LC50 LD50 Lethal Dose 50 % NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration Organisation for Economic Co-operation and Development OFCD PBT Persistent, Bioaccumulative & Toxic PNEC Predicted No Effect Concentration STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

M-factor

| [| zinc oxide | 1 | Acute | ECHA |
|---|------------|----|---------|------|
| | zinc oxide | 1 | Chronic | ECHA |
| | copper | 10 | Acute | ECHA |

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,

Reason for revision: 2;3

Publication date: 2003-10-20 Date of revision: 2018-05-15

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