

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Nowo Metal Special Primer SB

**Product no.**

-

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

Primer

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

NOWOCOAT INDUSTRIAL A/S

Stålvej 3

6000 Kolding

tlf: +45 7550 1111

mail@nowocoat.dk

**Contact person**

Annette Søgaard

**E-mail**

mail@nowocoat.dk

**SDS date**

2018-04-24

**SDS Version**

2.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flam. Liq. 3; H226

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT SE 3; H336

Aquatic Chronic 3; H412

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)****Signal word**

Warning

**Hazard statement(s)**

- Flammable liquid and vapour. (H226)
- Causes skin irritation. (H315)
- May cause an allergic skin reaction. (H317)
- May cause drowsiness or dizziness. (H336)
- Harmful to aquatic life with long lasting effects. (H412)

**Safety statement(s)**

- General** -
- Prevention** Avoid breathing mist/vapours/fume/spray. (P261).  
Wear protective gloves/protective clothing. (P280).
- Response** If skin irritation or rash occurs: Get medical advice/attention. (P333+P313).  
In case of fire: Use alcohol-resistant foam/carbolic acid/powder/water mist/carbon dioxide/dry sand to extinguish. (P370+P378).  
Call a POISON CENTER/doctor if you feel unwell. (P312).
- Storage** Store in a well-ventilated place. Keep cool. (P403+P235).
- Disposal** Dispose of contents/container to an approved waste disposal plant. (P501).

**Identity of the substances primarily responsible for the major health hazards**

n-Butyl acetate, 1-Methoxypropan-2-ol, Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)

**2.3. Other hazards**

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

**Additional labelling**

Contains epoxy constituents. May produce an allergic reaction. (EUH205)

**Additional warnings**

Not applicable.

**VOC**

Not applicable.

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

**3.1/3.2. Substances/Mixtures**

NAME: n-Butyl acetate  
 IDENTIFICATION NOS.: CAS-no: 123-86-4 EC-no: 204-658-1 Index-no: 607-025-00-1  
 CONTENT: 25-40%  
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3  
 H226, H336, EUH066  
 NOTE: S

NAME: 1-Methoxypropan-2-ol  
 IDENTIFICATION NOS.: CAS-no: 107-98-2 EC-no: 203-539-1 Index-no: 603-064-00-3  
 CONTENT: 15 - <25%  
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3  
 H226, H336  
 NOTE: SL

NAME: m-Xylene  
 IDENTIFICATION NOS.: CAS-no: 1330-20-7 EC-no: 215-535-7 Index-no: 601-022-00-9  
 CONTENT: 15 - <25%  
 CLP CLASSIFICATION: Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2  
 H226, H312, H315, H332  
 NOTE: SL

NAME: Titanium dioxide  
 IDENTIFICATION NOS.: CAS-no: 13463-67-7 EC-no: 236-675-5  
 CONTENT: 5 - <10%  
 CLP CLASSIFICATION: NA

NAME: Talc (Mg3H2(SiO3)4)  
 IDENTIFICATION NOS.: CAS-no: 14807-96-6 EC-no: 238-877-9  
 CONTENT: 5 - <10%  
 CLP CLASSIFICATION: NA

NAME: Ethylbenzene  
IDENTIFICATION NOS.: CAS-no: 100-41-4 EC-no: 202-849-4 Index-no: 601-023-00-4  
CONTENT: 2.5 - <5%  
CLP CLASSIFICATION: Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1  
H225, H304, H332, H373  
NOTE: SL

NAME: Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight  $\leq 700$ )  
IDENTIFICATION NOS.: CAS-no: 25068-38-6 EC-no: 500-033-5 Index-no: 603-074-00-8  
CONTENT: 2.5 - <5%  
CLP CLASSIFICATION: Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2  
H315, H317, H319, H411  
NOTE: H

(\*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.  
S = Organic solvent H = Epoxy resin L = European occupational exposure limit.

#### Other information

ATEmix(inhale, vapour) > 20  
ATEmix(dermal) > 2000  
Eye Cat. 2 Sum =  $\sum(C_i/S(G)CL_i) = 0,4128 - 0,6192$   
Skin Cat. 2 Sum =  $\sum(C_i/S(G)CL_i) = 1,708 - 2,562$   
N chronic (CAT 3) Sum =  $\sum(C_i/(M(\text{chronic})^{i*25}) * 0.1 * 10^{\wedge}CAT_i) = 1,6512 - 2,4768$

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Bring the person into fresh air and stay with him/her.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

#### Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

#### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

Nothing special.

#### Information to medics

Bring this safety data sheet.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

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

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Some metal oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

## 5.3. Advice for firefighters

No specific requirements.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

### 6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

#### Storage temperature

No data available.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

Ethylbenzene

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 441 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 125 ppm | 552 mg/m<sup>3</sup>

Comments: Sk (Sk = Can be absorbed through skin. )

Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Long-term exposure limit (8-hour TWA reference period): - ppm | 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

Titanium dioxide

Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

m-Xylene

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m<sup>3</sup>

Comments: Sk BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin. )

1-Methoxypropan-2-ol

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 375 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 150 ppm | 560 mg/m<sup>3</sup>

Comments: Sk (Sk = Can be absorbed through skin. )

n-Butyl acetate

Long-term exposure limit (8-hour TWA reference period): 150 ppm | 724 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 200 ppm | 966 mg/m<sup>3</sup>

#### **DNEL / PNEC**

DNEL (m-Xylene): 77 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (m-Xylene): 289 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (m-Xylene): 180 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (m-Xylene): 14.8 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (m-Xylene): 108 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (m-Xylene): 1.6 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-Butyl acetate): 48 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (n-Butyl acetate): 600 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (n-Butyl acetate): 300 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (n-Butyl acetate): 600 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (n-Butyl acetate): 7 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (n-Butyl acetate): 11 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (n-Butyl acetate): 12 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-Butyl acetate): 300 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - General population

DNEL (n-Butyl acetate): 35.7 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - General population

DNEL (n-Butyl acetate): 300 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (n-Butyl acetate): 3.4 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-Butyl acetate): 6 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - General population

DNEL (n-Butyl acetate): 2 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-Butyl acetate): 2 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Short term – Systemic effects - General population

DNEL (Ethylbenzene): 77 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Ethylbenzene): 293 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (Ethylbenzene): 180 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers  
DNEL (Ethylbenzene): 15 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population  
DNEL (Ethylbenzene): 1.6 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-Methoxypropan-2-ol): 369 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers  
DNEL (1-Methoxypropan-2-ol): 553.5 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Systemic effects - Workers  
DNEL (1-Methoxypropan-2-ol): 553.5 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - Workers  
DNEL (1-Methoxypropan-2-ol): 183 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers  
DNEL (1-Methoxypropan-2-ol): 43.9 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population  
DNEL (1-Methoxypropan-2-ol): 78 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population  
DNEL (1-Methoxypropan-2-ol): 33 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Titanium dioxide): 10 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - Workers  
DNEL (Titanium dioxide): 700 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 12.25 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers  
DNEL (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 12.25 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Systemic effects - Workers  
DNEL (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 8.33 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers  
DNEL (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 8.33 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Short term – Systemic effects - Workers  
DNEL (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 3.571 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population  
DNEL (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 3.571 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Short term – Systemic effects - General population  
DNEL (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 750 µg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population  
DNEL (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 750 µg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Short term – Systemic effects - General population

PNEC (m-Xylene): 327 µg/L  
Exposure: Freshwater  
Duration of Exposure: Single  
PNEC (m-Xylene): 327 µg/L  
Exposure: Marine water  
Duration of Exposure: Single  
PNEC (m-Xylene): 327 µg/L  
Exposure: Intermittent release  
Duration of Exposure: Continuous  
PNEC (m-Xylene): 2.31 mg/kg soil dw  
Exposure: Soil  
Duration of Exposure: Single

PNEC (n-Butyl acetate): 180 µg/L  
Exposure: Freshwater  
Duration of Exposure: Single  
PNEC (n-Butyl acetate): 18 µg/L  
Exposure: Marine water  
Duration of Exposure: Single  
PNEC (n-Butyl acetate): 35.6 mg/L  
Exposure: Intermittent release  
Duration of Exposure: Continuous  
PNEC (n-Butyl acetate): 90.3 µg/kg soil dw  
Exposure: Soil  
Duration of Exposure: Single

PNEC (Ethylbenzene): 100 µg/L  
Exposure: Freshwater  
Duration of Exposure: Single  
PNEC (Ethylbenzene): 10-100 µg/L  
Exposure: Marine water  
Duration of Exposure: Single  
PNEC (Ethylbenzene): 100 µg/L  
Exposure: Intermittent release  
Duration of Exposure: Continuous  
PNEC (Ethylbenzene): 2.68 mg/kg soil dw  
Exposure: Soil  
Duration of Exposure: Single

PNEC (1-Methoxypropan-2-ol): 10 mg/L  
Exposure: Freshwater  
Duration of Exposure: Single  
PNEC (1-Methoxypropan-2-ol): 1 mg/L  
Exposure: Marine water  
Duration of Exposure: Single  
PNEC (1-Methoxypropan-2-ol): 100 mg/L  
Exposure: Intermittent release  
Duration of Exposure: Continuous  
PNEC (1-Methoxypropan-2-ol): 4.59 mg/kg soil dw  
Exposure: Soil  
Duration of Exposure: Single

PNEC (Titanium dioxide): 184 µg/L  
Exposure: Freshwater  
Duration of Exposure: Single  
PNEC (Titanium dioxide): 18.4 µg/L  
Exposure: Marine water  
Duration of Exposure: Single  
PNEC (Titanium dioxide): 193 µg/L  
Exposure: Intermittent release  
Duration of Exposure: Continuous  
PNEC (Titanium dioxide): 100 mg/kg soil dw  
Exposure: Soil  
Duration of Exposure: Single

PNEC (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 6 µg/L  
Exposure: Freshwater  
Duration of Exposure: Single  
PNEC (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 600 ng/L  
Exposure: Marine water  
Duration of Exposure: Single  
PNEC (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 18 µg/L  
Exposure: Intermittent release  
Duration of Exposure: Continuous  
PNEC (Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700)): 196 µg/kg soil dw  
Exposure: Soil  
Duration of Exposure: Single

## 8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Observe general occupational hygiene standards.

### Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

No specific requirements.

### Individual protection measures, such as personal protective equipment



### Generally

Use only CE marked protective equipment.

### Respiratory Equipment

Recommended: A. Class 2 (medium capacity). Brown.

### Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

### Hand protection

Recommended: Butyl rubber. See the manufacturer's instructions.

### Eye protection

Wear safety glasses with side shields.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                              |                    |
|------------------------------|--------------------|
| Form                         | Liquid             |
| Colour                       | No data available. |
| Odour                        | No data available. |
| Odour threshold (ppm)        | No data available. |
| pH                           | No data available. |
| Viscosity (40°C)             | No data available. |
| Density (g/cm <sup>3</sup> ) | 1,0-1,1            |

### Phase changes

|   |                    |
|---|--------------------|
| Melting point (°C)                      | No data available. |
| Boiling point (°C)                      | No data available. |
| Vapour pressure                         | No data available. |
| Decomposition temperature (°C)          | No data available. |
| Evaporation rate (n-butylacetate = 100) | No data available. |

### Data on fire and explosion hazards

|                          |                    |
|--------------------------|--------------------|
| Flash point (°C)         | 25-27              |
| Ignition (°C)            | No data available. |
| Auto flammability (°C)   | No data available. |
| Explosion limits (% v/v) | No data available. |
| Explosive properties     | No data available. |

### Solubility

|                             |                    |
|-----------------------------|--------------------|
| Solubility in water         | Insoluble          |
| n-octanol/water coefficient | No data available. |

### 9.2. Other information

|                         |                    |
|-------------------------|--------------------|
| Solubility in fat (g/L) | No data available. |
|-------------------------|--------------------|



## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

### 10.3. Possibility of hazardous reactions

Nothing special.

### 10.4. Conditions to avoid

Avoid static electricity. Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance: Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight  $\leq 700$ )

Species: Rat

Test: LD50

Route of exposure: Oral

Result: > 2000 mg/kg bw

Substance: Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight  $\leq 700$ )

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: > 20 mL/kg bw

Substance: Ethylbenzene

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 3500 mg/kg bw

Substance: Ethylbenzene

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: 17,8 mL/kg bw

Substance: Titanium dioxide

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 5000 mg/kg bw

Substance: Titanium dioxide

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: 3.43 - 6.82 mg/L air (4 h)

Substance: 1-Methoxypropan-2-ol

Species: Guinea pig

Test: LD50

Route of exposure: Inhalation

Result: 6 000 - 7 000 ppm (6 h)

Substance: 1-Methoxypropan-2-ol

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 3 739 - 4 277 mg/kg bw

Substance: 1-Methoxypropan-2-ol

Species: Rat

Test: LD50

Route of exposure: Dermal

Result: 2000 mg/kg bw

Substance: n-Butyl acetate  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: 10736 - 12760 mg/kg bw

Substance: n-Butyl acetate  
Species: Rabbit  
Test: LD50  
Route of exposure: Dermal  
Result: 16 mL/kg bw

Substance: n-Butyl acetate  
Species: Rat  
Test: LC50  
Route of exposure: Inhalation  
Result: 1087 - 1109 ppm (4h)

#### **Skin corrosion/irritation**

Causes skin irritation.

#### **Serious eye damage/irritation**

No data available.

#### **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

#### **Germ cell mutagenicity**

No data available.

#### **Carcinogenicity**

No data available.

#### **Reproductive toxicity**

No data available.

#### **STOT-single exposure**

May cause drowsiness or dizziness.

#### **STOT-repeated exposure**

No data available.

#### **Aspiration hazard**

No data available.

#### **Long term effects**

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Substance: Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight  $\leq$  700)  
Species: Daphnia  
Test: EC50  
Duration: 48 h  
Result: 1.1 - 2.8 mg/L

Substance: Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight  $\leq$  700)  
Species: Fish  
Test: LC50  
Duration: 96 h  
Result: 1.2 - 3.6 mg/L

Substance: Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight  $\leq$  700)  
Species: Algae  
Test: EC50  
Duration: 72 h  
Result: 9.4 - 11 mg/L

Substance: Ethylbenzene  
Species: Daphnia  
Test: EC50  
Duration: 48 h  
Result: 1.8 - 2.4 mg/L

Substance: Ethylbenzene  
Species: Fish  
Test: LC50  
Duration: 96 h  
Result: 4.2 - 5.1 mg/L

Substance: Ethylbenzene  
Species: Algae  
Test: EC50  
Duration: 72 h  
Result: 4.9 - 5.4 mg/L

Substance: Titanium dioxide  
Species: Daphnia  
Test: LC50  
Duration: 48 h  
Result: 500 mg/L

Substance: Titanium dioxide  
Species: Fish  
Test: LC50  
Duration: 96 h  
Result: 155 - 294 mg/L

Substance: Titanium dioxide  
Species: Algae  
Test: EC50  
Duration: 72 h  
Result: 100 mg/L

Substance: m-Xylene  
Species: Fish  
Test: LC50  
Duration: 96 h  
Result: 2.6 mg/L

Substance: m-Xylene  
Species: Algae  
Test: EC50  
Duration: 73 h  
Result: 2.2 - 4.36 mg/L

Substance: 1-Methoxypropan-2-ol  
Species: Daphnia  
Test: LC50  
Duration: 48 h  
Result: 21.1 - 25.9 g/L

Substance: 1-Methoxypropan-2-ol  
Species: Fish  
Test: LC50  
Duration: 96 h  
Result: 1 - 20.8 g/L

Substance: 1-Methoxypropan-2-ol  
Species: Algae  
Test: EC50  
Duration: 7 d  
Result: 1 g/L

Substance: n-Butyl acetate  
Species: Daphnia  
Test: EC50  
Duration: 48 h  
Result: 32 - 44 mg/L

Substance: n-Butyl acetate  
Species: Fish  
Test: LC50  
Duration: 96 h  
Result: 18 mg/L

Substance: n-Butyl acetate  
Species: Algae  
Test: EC50  
Duration: 72 h  
Result: 246 - 674.7 mg/L

### 12.2. Persistence and degradability

| Substance                         | Biodegradability | Test                         | Result |
|-----------------------------------|------------------|------------------------------|--------|
| Reaction product: bisphenol-A-... | Yes              | Manometric Respirometry Test | 82 %   |
| Ethylbenzene                      | Yes              | Modified OECD Screening Test | 79 %   |
| m-Xylene                          | Yes              | Modified OECD Screening Test | 68 %   |
| 1-Methoxypropan-2-ol              | Yes              | Modified OECD Screening Test | 96 %   |
| n-Butyl acetate                   | Yes              | Closed Bottle Test           | 83 %   |

### 12.3. Bioaccumulative potential

| Substance                         | Potential bioaccumulation | LogPow | BCF               |
|-----------------------------------|---------------------------|--------|-------------------|
| Reaction product: bisphenol-A-... | Yes                       | 3,78   | No data available |
| Ethylbenzene                      | Yes                       | 3,6    | 1                 |
| m-Xylene                          | No                        | 32     | 25,9              |
| 1-Methoxypropan-2-ol              | No                        | 1      | No data available |
| n-Butyl acetate                   | No                        | 2,3    | No data available |

### 12.4. Mobility in soil

Reaction product: bisphenol-A-...: Log Koc= 3,071782, Calculated from LogPow (Moderate mobility potential.).

Ethylbenzene: Log Koc= 2,92924, Calculated from LogPow (Moderate mobility potential.).

m-Xylene: Log Koc= 25,4192, Calculated from LogPow (Moderate mobility potential.).

1-Methoxypropan-2-ol: Log Koc= 0,8703, Calculated from LogPow (High mobility potential.).

n-Butyl acetate: Log Koc= 1,89977, Calculated from LogPow (High mobility potential.).

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### 12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

This product contains substances with the potential of bioaccumulation resulting in the risk of accumulation in the food chain. Bioaccumulative substances are concentrated in adipose tissue and are not easily secreted.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

#### Waste

EWC code

08 01 11\*

waste paint and varnish containing organic solvents or other dangerous substances

#### Specific labelling

-

#### Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

#### ADR/RID

14.1. UN number 1263

14.2. UN proper shipping name PAINT RELATED MATERIAL (including paint thinning and reducing compound)

14.3. Transport hazard class(es) 3

14.4. Packing group III

Notes -

Tunnel restriction code -

#### IMDG

|                       |   |
|-----------------------|---|
| UN-no.                | 1263  |
| Proper Shipping Name  | PAINT RELATED MATERIAL (including paint thinning and reducing compound) |
| Class                 | 3   |
| PG*                   | III   |
| EmS                   | -   |
| MP**                  | -   |
| Hazardous constituent | -   |

#### IATA/ICAO

|                      |   |
|----------------------|---|
| UN-no.               | 1263  |
| Proper Shipping Name | PAINT RELATED MATERIAL (including paint thinning and reducing compound) |
| Class                | 3   |
| PG*                  | III   |

#### 14.5. Environmental hazards

-

#### 14.6. Special precautions for user

-

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

No data available.

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

#### Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

#### Additional information

Not applicable

#### Seveso

Seveso III Part 1: P5c

#### Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

The Control of Major Accident Hazards (COMAH) Regulations 2015.

### 15.2. Chemical safety assessment

No.

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- H304 - May be fatal if swallowed and enters airways.
- H312 - Harmful in contact with skin.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H336 - May cause drowsiness or dizziness.
- H373 - May cause damage to organs through prolonged or repeated exposure<sup>a</sup>.
- H411 - Toxic to aquatic life with long lasting effects.
- EUH066 - Repeated exposure may cause skin dryness or cracking.

### The full text of identified uses as mentioned in section 1

-

### Additional label elements

Not applicable

### Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

### The safety data sheet is validated by

Annette

### Date of last essential change (First cipher in SDS version)

2018-04-24

### Date of last minor change (Last cipher in SDS version)

2018-04-24