

Safety Data Sheet according to Regulation (EC) 'No. 2015/830



SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier 8663 Revision Date: 11/11/2021

Product Name: CARBOTHANE 134 HP - A Supersedes Date: New SDS

Version Number: 1

UFI Code: TJP0-A0TR-V008-V9JN

1.2 Relevant identified uses of the substance or mixture and uses

advised against

Base component of 2 components coating - Industrial use. Advised against: Please

see Technical Data Sheet.

Product to be mixed with:

Mixing ratio by volume Part A/

Part B:

1.3

CARBOTHANE 134 HP - B

Details of the supplier of the safety data sheet

Manufacturer: Carboline Italia, S.p.a.

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Italy

4/1

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SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

| Skin drying or cracking | EUH066 |
|---|--------|
| Other EU extensions | EUH211 |
| Flammable Liquid, category 3 | H226 |
| Skin Sensitizer, category 1 | H317 |
| Acute Toxicity, Inhalation, category 4 | H332 |
| STOT, repeated exposure, category 1 | H372 |
| Hazardous to the aquatic environment, Chronic, category 3 | H412 |

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

ethylbenzene, Pentane-2,4-dione, xylene, quartz (silicon dioxide), Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

HAZARD STATEMENTS

| Skin drying or cracking Other EU extensions | EUH066 EUH211 | Repeated exposure may cause skin dryness or cracking. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |
|--|------------------|--|
| Flammable Liquid, category 3 | H226 | Flammable liquid and vapour. |
| Skin Sensitizer, category 1 | H317 | May cause an allergic skin reaction. |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled. |
| STOT, repeated exposure, category 1 | H372 | Causes damage to organs through prolonged or repeated exposure. |
| Hazardous to the aquatic environment, Chronic, category 3 | H412 | Harmful to aquatic life with long lasting effects. |
| PRECAUTION PHRASES | | |
| | P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| | P280 | Wear protective gloves/protective clothing/eye protection/ face protection. |
| | P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| | P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| | P308+313 | IF exposed or concerned: Get medical advice/attention. |
| | P333+313 | If skin irritation or rash occurs: Get medical advice/attention. |

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

SECTION 3: Composition/Information On Ingredients

3.2 Mixtures

Hazardous ingredients

| Name According to EEC | EINEC No. | CAS-No. | <u>%</u> | <u>Classifications</u> | |
|--------------------------|-----------|------------|-----------|------------------------|---|
| titanium dioxide | 236-675-5 | 13463-67-7 | 10 - <25 | | |
| quartz (silicon dioxide) | 238-878-4 | 14808-60-7 | 10 - <25 | H372 | STOT RE 1 |
| n-butyl acetate | 204-658-1 | 123-86-4 | 10 - <25 | H226-336 | Flam. Liq. 3, Skin Cracking, STOT SE 3 NE |
| polytetrahydrofuran | 607-637-9 | 25190-06-1 | 2.5 - <10 | H412 | Aquatic Chronic 3 |

| 2-methoxy-1- methylethyl-acetate | 203-603-9 | 108-65-6 | 2.5 - <10 | H226-336 | Flam. Liq. 3, STOT SE 3 NE |
|---|-----------|------------------|------------|--------------------------------------|--|
| xylene | 215-535-7 | 1330-20-7 | 2.5 - <10 | H226-304-312-315-319- 332-335-373 | Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, STOT RE 2, STOT SE 3 RTI |
| Pentane-2,4-dione | 204-634-0 | 123-54-6 | 1.0 - <2.5 | H226-302-311-331 | Acute Tox. 3 Dermal, Acute Tox. 3 Inhalation, Acute Tox. 4 Oral, Flam. Liq. 3 |
| reaction mass ethylbenzene - xylene | 905-588-0 | | 0.1 - <1.0 | H226-304-312-315-319- 332-335-373 | Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, STOT RE 2, STOT SE 3 RTI |
| ethylbenzene | 202-849-4 | 100-41-4 | 0.1 - <1.0 | H225-304-332-373-412 | Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Flam. Liq. 2, STOT RE 2 |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | 1065336-91- 5 | 0.1 - <1.0 | H317-361F-400-410 | Aquatic Acute 1, Aquatic Chronic 1, Repr. 2, Skin Sens. 1A |

| CAS-No. | M-Factors | REACH Reg No. |
|--------------|-----------|------------------|
| 13463-67-7 | | 01-2119489379-17 |
| 14808-60-7 | | |
| 123-86-4 | | 01-2119485493-29 |
| 25190-06-1 | | |
| 108-65-6 | | 01-2119475791-29 |
| 1330-20-7 | | 01-2119488216-32 |
| 123-54-6 | | 01-2119458968-15 |
| | | 01-2119539452-40 |
| 100-41-4 | | 01-2119489370-35 |
| 1065336-91-5 | | 01-2119491304-40 |

Remarks: CAS No 13463-67-7: Note 10

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: Show this safety data sheet to the doctor in attendance.

AFTER INHALATION: Provide fresh air, rest and warmth. Call a physician immediately. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do not use solvent or thinners to clean skin. AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

AFTER INGESTION: If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Harmful by inhalation. May cause sensitization by skin contact. Danger of serious damage to health by prolonged exposure. Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11. When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Heating or fire conditions liberates toxic gas. Flash back possible over considerable distance. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air. Solvent vapours are heavier than air and may spread along floors and ignite.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Prevent the

creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only explosion-proof equipment.

Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Avoid heat, sparks, flames and other ignition sources.

STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store away from: oxidising materials, acids, and alkalis. Store in upright position only. Storage of flammable liquids.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (EU)

| <u>Name</u> | CAS-No. | LTEL ppm | STEL ppm | STEL mg/m3 | LTEL mg/m3 |
|--|--------------|----------|----------|------------|------------|
| titanium dioxide | 13463-67-7 | | | | |
| quartz (silicon dioxide) | 14808-60-7 | | | | |
| n-butyl acetate | 123-86-4 | 50 | 150 | 723 | 241 |
| polytetrahydrofuran | 25190-06-1 | | | | |
| 2-methoxy-1-methylethyl-acetate | 108-65-6 | 50 | 100 | 550 | 275 |
| xylene | 1330-20-7 | 50 | 100 | 442 | 221 |
| Pentane-2,4-dione | 123-54-6 | | | | |
| reaction mass ethylbenzene - xylene | | | | | |
| ethylbenzene | 100-41-4 | 100 | 200 | 884 | 442 |
| Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 1065336-91-5 | | | | |

| <u>Name</u> | CAS-No. | OEL Note |
|--|--------------|----------|
| titanium dioxide | 13463-67-7 | |
| quartz (silicon dioxide) | 14808-60-7 | |
| n-butyl acetate | 123-86-4 | |
| polytetrahydrofuran | 25190-06-1 | |
| 2-methoxy-1-methylethyl-acetate | 108-65-6 | Sk |
| xylene | 1330-20-7 | Sk |
| Pentane-2,4-dione | 123-54-6 | |
| reaction mass ethylbenzene - xylene | | |
| ethylbenzene | 100-41-4 | Sk |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 1065336-91-5 | |

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation. Annotations: Carc = Capable of causing cancer and/or heritable genetic damage, Sen = Capable of causing occupational asthma, Sk = Can be absorbed through the skin.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Wear respiratory protection with combination filter (dust and gas filter, EN 14387:2004 +A1:2008) during spraying operations: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust). When working in confined or poorly ventilated spaces, a battery powered assisted air-fed mask must be used.

EYE PROTECTION: If splashes are likely to occur, wear: Face-shield, tightly fitting safety goggles (EN 166).

HAND PROTECTION: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber.

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location. **ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

Chemical Name:

titanium dioxide

EC No.: CAS-No.: 236-675-5 13463-67-7

DNELs - Derived no effect level

| | Workers | | | | kers Consumers | | | |
|------------|--------------|---------------|---------------------|-----------------|----------------|---------------|---------------|-----------------|
| Route of | Acute effect | Acute effects | Chronic | Chronic effects | Acute effect | Acute effects | Chronic | Chronic effects |
| Exposure | local | systemic | effects local | systemic | local | systemic | effects local | systemic |
| Oral | Not required | | | | | | | 700 mg/kg/ bw/ |
| | | | | | | | | day |
| Inhalation | | | 5 mg/m ³ | | | | 5 mg/m³ | |
| Dormal | | | | | | | | |

| Environmental protection target | PNEC |
|------------------------------------|-------------------|
| Fresh water | 0.127 mg/L |
| Fresh water sediments | 1000 mg/kg dw |
| Marine water | 1 mg/L |
| Marine sediments | 100 mg/kg dw |
| Food chain | 1667 mg/kg (oral) |
| Microorganisms in sewage treatment | 100 mg/kg |
| soil (agricultural) | 100 mg/kg dw |
| Air | |

Chemical Name:

n-butyl acetate

EC No.: CAS-No.: 204-658-1 123-86-4

DNELs - Derived no effect level

| | | Wo | orkers | | Consumers | | | |
|----------------------|---|---|-----------------------|--------------------------|---|---|--|-----------------------------------|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | 100ai | | required | Joycestine | iodai | 2 mg/kg bw/ day - neurotoxicity- | onous local | 2 mg/kg bw/day -neurotoxicity- |
| Inhalation | 300 mg/m³ (irritation (respiratory tract)) | 600 mg/m³ | 300 mg/m ³ | 48 mg/m³ | 300 mg/m³ (irritation (respiratory tract)) | 300 mg/m³ (irritation (respiratory tract)) | 35.7 mg/m³ (irritation (respiratory tract)) | 12 mg/m³ |
| Dermal | | 11 mg/kg bw/ day - neurotoxicity- | | 7 mg/kg bw/day | No hazard identified | 6 mg/kg bw/ day - neurotoxicity | ,, | 3.4 mg/kg bw/ day |

PNEC's - Predicted no effect concentration

| Environmental protection target | PNEC |
|------------------------------------|--------------|
| Fresh water | 0.18 mg/l |
| Fresh water sediments | 0.981 mg/kg |
| Marine water | 0.018 mg/l |
| Marine sediments | 0.0981 mg/kg |
| Food chain | |
| Microorganisms in sewage treatment | 35.6 mg/L |
| soil (agricultural) | 0.0903 mg/kg |
| Air | |

Chemical Name:

2-methoxy-1-methylethyl-acetate

EC No.: CAS-No.: 203-603-9 108-65-6

DNELs - Derived no effect level

| | Workers | | | | Consumers | | | |
|------------|-----------------------|---------------|---------------|-----------------------|--------------|---------------|---------------|-----------------|
| Route of | Acute effect | Acute effects | Chronic | Chronic effects | Acute effect | Acute effects | Chronic | Chronic effects |
| Exposure | local | systemic | effects local | systemic | local | systemic | effects local | systemic |
| Oral | Not required | | | | | | 1.67 mg/kg | |
| Inhalation | 550 mg/m ³ | | | 275 mg/m ³ | | | | 33 mg/m³ |
| Dermal | | | | 153.5 mg/kg | | | | 54.8 mg/kg |

| Environmental protection target | PNEC |
|------------------------------------|-------------|
| Fresh water | 0.635 mg/L |
| Fresh water sediments | 3.29 mg/kg |
| Marine water | 0.0635 mg/L |
| Marine sediments | 0.329 mg/kg |
| Food chain | |
| Microorganisms in sewage treatment | 100 mg/L |
| soil (agricultural) | 0.29 mg/kg |
| Air | |

Chemical Name:

xylene

EC No.: CAS-No.: 215-535-7 1330-20-7

DNELs - Derived no effect level

| | Workers | | | Consumers | | | | |
|----------------------|-----------------------|---------------------------|-----------------------|-----------------------------|-----------------------|---------------------------|-----------------------|-----------------------------|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | | Not | required | | | · - | | 1.6 mg/kg bw/ day |
| Inhalation | 289 mg/m ³ | 289 mg/m ³ | | 77 mg/m³ | 174 mg/m ³ | 174 mg/m³ | | 14.8 mg/m³ |
| Dermal | | | | 180 mg/kg bw/ day | | | | 108 mg/kg bw/ day |

PNEC's - Predicted no effect concentration

| Environmental protection target | PNEC |
|------------------------------------|-------------|
| Fresh water | 0.327 mg/L |
| Fresh water sediments | 12.46 mg/kg |
| Marine water | 0.327 mg/L |
| Marine sediments | 12.46 mg/kg |
| Food chain | |
| Microorganisms in sewage treatment | 6.58 mg/L |
| soil (agricultural) | 2.31 mg/kg |
| Air | |

Chemical Name:

Pentane-2,4-dione

EC No.: CAS-No.: 204-634-0 123-54-6

DNELs - Derived no effect level

| | Workers | | | | Consumers | | | |
|------------|--------------|---------------|---------------|-----------------|--------------|---------------|---------------|------------------------|
| Route of | Acute effect | Acute effects | Chronic | Chronic effects | Acute effect | Acute effects | Chronic | Chronic effects |
| Exposure | local | systemic | effects local | systemic | local | systemic | effects local | systemic |
| Oral | | Not required | | | | | | 7 mg/kg bw/day |
| Inhalation | | . 8 | | | | | | 24.7 mg/m ³ |
| Dermal | | | | 12 mg/kg bw/day | | | | 8.4 mg/kg bw/ |
| | | | | | | | | day |

| Environmental protection target | PNEC |
|------------------------------------|---------------|
| Fresh water | 0.026 mg/l |
| Fresh water sediments | 0.155 mg/kg |
| Marine water | 0.0026 mg/l |
| Marine sediments | 0.0155 ng/kg |
| Food chain | |
| Microorganisms in sewage treatment | |
| soil (agricultural) | 0.01582 mg/kg |
| Air | |

Chemical Name:

reaction mass ethylbenzene - xylene

EC No.: CAS-No.:

905-588-0

DNELs - Derived no effect level

| | Workers | | | | Consumers | | | |
|------------|--------------|---------------|---------------|-----------------|--------------|---------------|---------------|----------------------|
| Route of | Acute effect | Acute effects | Chronic | Chronic effects | Acute effect | Acute effects | Chronic | Chronic effects |
| Exposure | local | systemic | effects local | systemic | local | systemic | effects local | systemic |
| Oral | | Not | required | | | · - | · | 1.6 mg/kg bw/ day |
| Inhalation | 289 mg/m³ | | | 77 mg/m³ | | | | 14.8 mg/m³ |
| Dermal | | | | 180 mg/kg bw/ | | | | 108 mg/kg bw/ |
| | | | | day | | | | day |

PNEC's - Predicted no effect concentration

| Environmental protection target | PNEC | | | |
|------------------------------------|-------------------------|--|--|--|
| Fresh water | 0,327 mg/L | | | |
| Fresh water sediments | 12.46 mg/kg sediment dw | | | |
| Marine water | 0,327 mg/L | | | |
| Marine sediments | 12.46 mg/kg sediment dw | | | |
| Food chain | | | | |
| Microorganisms in sewage treatment | | | | |
| soil (agricultural) | 2.31 mg/kg soil dw | | | |
| Air | | | | |

Chemical Name:

ethylbenzene

EC No.: CAS-No.: 202-849-4 100-41-4

DNELs - Derived no effect level

| | Workers | | | | Consumers | | | | |
|----------------------|---|---------------------------|-----------------------|--------------------------|--------------------|------------------------|-----------------------|-----------------------------|--|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | |
| Oral | Not required | | | | · • | | 1.6 mg/kg bw/ day | | |
| Inhalation | 293 mg/m³ irritation (respiratory tract) | | | 77 mg/m³ | | | | 15 mg/m³ | |
| Dermal | | | | 180 mg/kg bw/ day | | | | | |

| Environmental protection target | PNEC |
|------------------------------------|------------------------|
| Fresh water | 100 μg/L |
| Fresh water sediments | 13.7 mg/kg sediment dw |
| Marine water | 10 - 100 μg/L |
| Marine sediments | 1.37 mg/kg sediment dw |
| Food chain | |
| Microorganisms in sewage treatment | |
| soil (agricultural) | 2.68 mg/kg soil dw |
| Air | |

Chemical Name:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

EC No.: CAS-No.: 1065336-91-5 915-687-0

DNELs - Derived no effect level

| | Workers | | | | Consumers | | | |
|------------|--------------|---------------|---------------|-----------------|--------------|---------------|---------------|-----------------|
| Route of | Acute effect | Acute effects | Chronic | Chronic effects | Acute effect | Acute effects | Chronic | Chronic effects |
| Exposure | local | systemic | effects local | systemic | local | systemic | effects local | systemic |
| Oral | Not required | | | | 1.25 mg/kg | | 1.25 mg/kg | |
| Inhalation | | 2.35 mg/m3 | | 2.35 mg/m3 | | 0.58 mg/m3 | | 0.58 mg/m3 |
| Dermal | | 2.5 mg/kg | | 2.5 mg/kg | | 1.25 mg/kg | | 1.25 mg/kg |

PNEC's - Predicted no effect concentration

| Environmental protection target | PNEC |
|------------------------------------|------------------------------|
| Fresh water | 0.0022 mg/l |
| Fresh water sediments | 1.05 mg/kg |
| Marine water | 0.00022 mg/l |
| Marine sediments | 0.11 mg/kg |
| Food chain | |
| Microorganisms in sewage treatment | 1 mg/l (as sewage treatment) |
| soil (agricultural) | 0.21 mg/kg |
| Air | |

SECTION 9: Physical and Chemical Properties

| 0.1 | Information | n hacio nhvei | cal and cham | ical properties |
|------|--------------|-----------------|--------------|-----------------|
| 9. I | mnormation (| on basic brivsi | cai and chem | cai broberties |

Appearance: Misc. colours

Physical State Liquid Odor Solvent

Odor threshold Not determined

pН Not determined

Melting point / freezing point (°C) Not determined

Boiling point/range (°C) 126 - 152

Flash Point, (°C) 26

Evaporation rate Not determined

Flammability (solid, gas) Not determined

Upper/lower flammability or explosive

limits

Vapour density

1.0 - 7.5

Vapour Pressure Not determined

>1 (air = 1) Relative density Not determined

Solubility in / Miscibility with water Negligible

Partition coefficient: n-octanol/water Not determined

Auto-ignition temperature (°C) >415

Decomposition temperature (°C) Not determined Viscosity Not determined Not determined **Explosive properties** Oxidising properties Not determined

9.2 Other information

VOC Content g/l: 350.00

Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.

Specific Gravity (g/cm3) 1.33

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No reactivity hazards known under normal storage and use conditions.

10.4 Conditions to avoid

Avoid heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

Keep away from strong oxidising agents and strongly acid or alkaline materials.

10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Carbon monoxide (CO), carbon dioxide (CO2), oxides of nitrogen (NOx).

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50: No information available on the product itself as the product is not tested.

Inhalation LC50: No information available on the product itself as the product is not tested.

Irritation: No information available.

Corrosivity: No information available.

Sensitization: May cause an allergic skin reaction.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

| CAS-No. | Name According to EEC | Oral LD50 | Dermal LD50 | Vapor LC50 | Gas LC50 | Dust/Mist LC50 |
|------------|-----------------------|---------------------------|-------------|----------------|----------------|-----------------------------|
| 13463-67-7 | titanium dioxide | >5000 mg/kg (oral-rat) | 10000 mg/kg | No information | No information | >6.82 mg/L (inh- rat-4h) |

| 123-86-4 | n-butyl acetate | 10760 mg/kg (rat- oral) | 14112 mg/Kg (rabbit-dermal) | 23.4 mg/l/4/h (rat) | No information | No information |
|-----------|-------------------------------------|----------------------------|--------------------------------|---|--------------------------|------------------------------|
| 108-65-6 | 2-methoxy-1-methylethyl- acetate | 6190 mg/kg (oral, rat) | >5000 mg/kg (dermal, rat) | 1105 mg/m3/4H | No information | No information |
| 1330-20-7 | xylene | >2000 mg/kg (oral-rat) | 1100 mg/kg (ATE dermal-rabbit) | 11 mg/L (ATE inh/ vapour) | 4500 ppmV (ATE inh -Gas) | 1.5 mg/L (ATE inh/dust/mist) |
| 123-54-6 | Pentane-2,4-dione | 575 mg/kg (LD50 oral. rat) | No information | 5.10mg/I (LC50 , rat, 4h) | No information | No information |
| | reaction mass ethylbenzene - xylene | 3500 mg/kg oral, rat | 1100 mg/kg dermal, rat | 29.08 mg/kg/4h inhalation, rat | No information | No information |
| 100-41-4 | ethylbenzene | 3500 mg/kg rat, oral | >20000 mg/kg bw (rabbit) | 17.2 mg/L (rat/4h/ vapour); 4000 ppm, rat, 4h | 10000 ppm | 1.5 mg/L |

Additional Information:

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Respiration of solvent vapour may cause dizziness. Repeated and prolonged exposure to solvents may cause brain and nervous system damage. This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogenic to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities. Chronic exposure causes drying effect on the skin and eczema. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. CNS depressant. Inhalation is the main hazard in industrial use. The solvent vapours can be harmful and cause headaches, nausea, and intoxication. Acts as a defatting agent on skin.

SECTION 12: Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

No information

No information

No information

No information

No information

No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII. assessment:

12.6 Other adverse effects: No information

| CAS-No. | Name According to EEC | EC50 48hr | IC50 72hr | LC50 96hr |
|------------|---------------------------------|--|---|--|
| 13463-67-7 | titanium dioxide | >1000 mg/L (LC50, statisk, Daphnia magna, OECD202) | >100 mg/L (EC50, statisk, Pseudokirchnerella subcapitata, OECD201) | >1000 mg/L (LC50, statisk, Pimephales promelas, EPA-540/9-85-006) |
| 123-86-4 | n-butyl acetate | 44 mg/L (Daphnia) | 648 mg/L (Desmodesmus subspicatus) | 18 mg/L (Pimephales promelas) |
| 108-65-6 | 2-methoxy-1-methylethyl-acetate | >500 mg/L (Daphnia magna) | >1000 mg/L (ErC50, Pseudokirchneriella subcapitata) | >100 mg/L (Oryzias latipes) |
| 1330-20-7 | xylene | 165 mg/L (Daphnia magna 24h) | 3 - 5 mg/L (Selenastrum sp.) | 2 - 11 mg/L (Roccus saxatilis), 8.2 mg/L (Salmo gairdneri), 13.5 mg/L (Lepomis macrichirus), 21.0 mg/L (Pimephales promelas) |

123-54-6 Pentane-2,4-dione 34.4 mg/l (EC50, 48h, Daphnia magna)

8.36 - 83.22 mg/L

>71,70 mg/l (LC50, 96h, salmo gairdneri); 72 mg/l (LC50, 96h, raimbow trout)

100-41-4 ethylbenzene No information No information 5.1 mg/L (Atlantic silverfish)

Reaction mass of Bis(1,2,2,6,6-

1065336-91-5 pentamethyl-4-piperidyl) sebacate and Methyl No information No information

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

0.97 mg/L (Lepomis macrochirus)

SECTION 13: Disposal Considerations

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

European Waste Code: 08 01 11* Packaging Waste Code: 15 01 10*

SECTION 14: Transport Information

14.1 UN number UN126314.2 UN proper shipping name PAINT

Technical name Not applicable

14.3 Transport hazard class(es) 3

Subsidiary shipping hazard Not applicable

14.4 Packing group

14.5 Environmental hazards Marine pollutant: No
14.6 Special precautions for user Not applicable
EmS-No.: F-E, S-E

14.7 Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC code

Not applicable

SECTION 15: Regulatory Information

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

National Regulations:

Denmark Product Registration Number: Not available

Danish MAL Code: Not available

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Norway Product Registration Number: Not available

Germany WGK Class: Not available

Directive 2004/42/CE: 500 g/L (subcat j)

Covered by Directive 2012/18/EC (Seveso III): P5c

Restrictions to product or to substances according

to Annex XVII, Regulation (CE) 1907/2006: Entry 3, 40

Annex XIV - Authorisation List:

CAS-No. Name According to EEC

Not Applicable

SVHC - Substances of very high concern (Candidate List):

CAS-No. Name According to EEC

Not Applicable

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

| H225 | Highly flammable liquid and vapour. |
|-------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361f | Suspected of damaging fertility. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Reasons for revision

This is a new Safety Data Sheet (SDS).

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark; European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP); EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation

EC European Commission
EU European Union
US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit

STEL Short term exposure limit
OEL Occupational exposure limit

ppm Parts per million

mg/m3 Milligrams per cubic meter TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits
VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration
IC50 Half maximal inhibitory concentration
PBT Persistent bioaccumulative toxic chemical
vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code
IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978

IBC International Bulk Container
RTI Respiratory Tract Irritation

NE Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.