

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Concentrate Wheel Rim Silver matt 180 kgs

Version 5.0 Revision Date: 13.02.2023 SDS Number: 102000005070 Print Date: 16.04.2024
Date of first issue: 30.01.2014

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

1.1 Product identifier

Trade name : Concentrate Wheel Rim Silver matt 180 kgs
Product code : 08844625V

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

Use of the Substance/Mixture : Colorant; Printing ink related material; Printing ink, Colouring agents, dyes

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH
Guentersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address of person responsible for the SDS : msds.eckart@altana.com

1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)
Call and response in your language is possible.
Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|--|--|
| Flammable liquids, Category 3 | H226: Flammable liquid and vapour. |
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness. |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation. |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |

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Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements :

| | |
|---------------------------------|---|
| Prevention: P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe mist or vapours. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |
| Response: P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER/ doctor. |
| P331 | Do NOT induce vomiting. |
| P370 + P378 | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |

Hazardous components which must be listed on the label:

xylene
n-butyl acetate
Solvent naphtha (petroleum), light arom.
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha butan-1-ol
Fatty acids, C14-18 and C16-18-unsatd., maleated
methyl 2-methylprop-2-enoate
n-butyl methacrylate

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maleic anhydride

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | ClassificationREGULATION (EC) No 1272/2008 | Concentration (% w/w) |
|--|--|--|--------------------------|
| xylene | 1330-20-7 215-535-7 601-022-00-9 01-2119488216-32 | Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Central nervous system) Asp. Tox. 1; H304 | >= 20 - < 25 |
| n-butyl acetate | 123-86-4 204-658-1 607-025-00-1 01-2119485493-29 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066 | >= 10 - < 20 |
| aluminium powder (stabilised) | 7429-90-5 231-072-3 013-002-00-1 01-2119529243-45 | Flam. Sol. 1; H228 | >= 10 - < 20 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 918-668-5 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 10 - < 20 |
| Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha | 64742-48-9 918-481-9 01-2119457273-39 | Asp. Tox. 1; H304 | >= 1 - < 10 |

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|--|---|---|----------------------|
| butan-1-ol | 71-36-3 200-751-6 603-004-00-6 01-2119484630-38 | Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) | $\geq 1 - < 3$ |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | 85711-46-2 288-306-2 | Skin Sens. 1; H317 Skin Irrit. 2; H315 | $\geq 0.1 - < 1$ |
| methyl 2-methylprop-2-enoate | 80-62-6 201-297-1 607-035-00-6 | Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) | $\geq 0.1 - < 1$ |
| n-butyl methacrylate | 97-88-1 202-615-1 607-033-00-5 | Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) | $\geq 0.1 - < 1$ |
| maleic anhydride | 108-31-6 203-571-6 607-096-00-9 01-2119472428-31 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT RE 1; H372 specific concentration limit Skin Sens. 1A; H317 $\geq 0.001 \%$ Skin Sens. 1A; H317 $\geq 0.001 \%$ | $\geq 0.001 - < 0.1$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move the victim to fresh air.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
- If inhaled : Consult a physician after significant exposure.

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- If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
- Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry sand
ABC powder
Foam
- Unsuitable extinguishing media : High volume water jet
Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
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5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
- Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Use mechanical handling equipment.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Do not flush with water.

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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.
- No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Protect from humidity and water.
- Advice on common storage : Do not store near acids.
Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage.
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
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Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|-------------------------------|-----------|--|----------------------------------|------------------|
| xylene | 1330-20-7 | TWA | 50 ppm 221 mg/m ³ | 2000/39/EC |
| | | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | |
| | | STEL | 100 ppm 442 mg/m ³ | 2000/39/EC |
| | | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | |
| | | TWA | 50 ppm 220 mg/m ³ | GB EH40 |
| | | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | |
| | | STEL | 100 ppm 441 mg/m ³ | GB EH40 |
| | | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | |
| n-butyl acetate | 123-86-4 | TWA | 150 ppm 724 mg/m ³ | GB EH40 |
| | | STEL | 200 ppm 966 mg/m ³ | GB EH40 |
| | | STEL | 150 ppm 723 mg/m ³ | 2019/1831/E U |
| | | Further information: Indicative | | |
| | | TWA | 50 ppm 241 mg/m ³ | 2019/1831/E U |
| | | Further information: Indicative | | |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Inhalable) | 10 mg/m ³ | GB EH40 |
| | | TWA (Respirable fraction) | 4 mg/m ³ | GB EH40 |
| | | TWA (inhalable dust) | 10 mg/m ³ | GB EH40 |
| | | Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or | | |

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|------------------------|---|-----------------------|---------------------------------|-------------|
| | <p>respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.</p> | | | |
| | | TWA (Respirable dust) | 4 mg/m ³ | GB EH40 |
| | <p>Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.</p> | | | |
| butan-1-ol | 71-36-3 | STEL | 50 ppm 154 mg/m ³ | GB EH40 |
| | <p>Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.</p> | | | |
| methyl 2-methylprop-2- | 80-62-6 | TWA | 50 ppm | 2009/161/EU |

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| | | | | |
|------------------|---|------|----------------------|-------------|
| enoate | | | | |
| | Further information: Indicative | | | |
| | | STEL | 100 ppm | 2009/161/EU |
| | Further information: Indicative | | | |
| | | STEL | 100 ppm 416 mg/m3 | GB EH40 |
| | | TWA | 50 ppm 208 mg/m3 | GB EH40 |
| maleic anhydride | 108-31-6 | TWA | 1 mg/m3 | GB EH40 |
| | <p>Further information: Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even in tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified as asthmagens or respiratory sensitisers. Further information can be found in the HSE publication Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced to as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the categories shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further information.</p> | | | |
| | | STEL | 3 mg/m3 | GB EH40 |
| | <p>Further information: Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even in tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. Substances that can cause occupational asthma should be distinguished from substances which may trigger the</p> | | | |

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symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified as asthmagens or respiratory sensitizers. Further information can be found in the HSE publication Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced to as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the categories shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further information.

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|-----------|--|---------------|-------------|
| xylene | 1330-20-7 | methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine) | After shift | GB EH40 BAT |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|-----------|-----------------|----------------------------|------------------------|
| xylene | Workers | Inhalation | Long-term local effects | 221 mg/m ³ |
| | Workers | Inhalation | Long-term systemic effects | 77 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects | 289 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 289 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 180 mg/kg |
| | Consumers | Inhalation | Long-term local effects | 65.3 mg/m ³ |
| | Consumers | Inhalation | Long-term systemic effects | 14.8 mg/m ³ |
| | Consumers | Inhalation | Acute systemic effects | 174 mg/m ³ |
| | Consumers | Inhalation | Acute local effects | 174 mg/m ³ |
| | Consumers | Skin contact | Long-term systemic effects | 108 mg/kg |

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| | Consumers | Ingestion | Long-term systemic effects | 1.6 mg/kg |
| aluminium powder (stabilised) | Workers | Inhalation | Long-term systemic effects | 3.72 mg/m ³ |
| | Workers | Inhalation | Long-term local effects | 3.72 mg/m ³ |
| | Consumers | Oral | Long-term systemic effects | 3.95 mg/kg |
| n-butyl acetate | Workers | Inhalation | Long-term systemic effects | 300 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects | 960 mg/m ³ |
| | Workers | Inhalation | Long-term local effects | 300 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 600 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 7 mg/kg |
| | Workers | Skin contact | Acute systemic effects | 11 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 35.7 mg/m ³ |
| | Consumers | Inhalation | Acute systemic effects | 300 mg/m ³ |
| | Consumers | Inhalation | Long-term local effects | 35.7 mg/m ³ |
| | Consumers | Inhalation | Acute local effects | 300 mg/m ³ |
| | Consumers | Skin contact | Long-term systemic effects | 3.4 mg/kg |
| | Consumers | Skin contact | Acute systemic effects | 6 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 2 mg/kg |
| | Consumers | Ingestion | Acute systemic effects | 2 mg/kg |
| Solvent naphtha (petroleum), light arom. | Workers | Inhalation | Long-term systemic effects | 150 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 25 mg/kg |
| | Consumers | Skin contact | Long-term systemic effects | 11 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 32 mg/m ³ |
| | Consumers | Inhalation | Long-term local effects | 11 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 11 mg/kg |
| Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated | Workers | Inhalation | Acute systemic effects | 1500 mg/m ³ |

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|------------------------------|-----------|--------------|----------------------------|--------------|
| naphtha | | | | |
| | Workers | Skin contact | Long-term systemic effects | 300 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 300 mg/kg |
| | Consumers | Skin contact | Long-term systemic effects | 300 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 900 mg/m3 |
| butan-1-ol | Workers | Inhalation | Long-term local effects | 310 mg/m3 |
| | Workers | Oral | Long-term systemic effects | 3.125 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 55.357 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 55 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 3.125 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 1.5625 mg/kg |
| methyl 2-methylprop-2-enoate | Workers | Skin contact | Long-term local effects | 1.5 mg/cm2 |
| | Workers | Skin contact | Long-term systemic effects | 13.67 mg/kg |
| | Workers | Skin contact | Acute local effects | 1.5 mg/cm2 |
| | Consumers | Skin contact | Long-term local effects | 1.5 mg/cm2 |
| | Consumers | Skin contact | Long-term systemic effects | 8.2 mg/kg |
| | Consumers | Skin contact | Acute local effects | 1.5 mg/cm2 |
| | Consumers | Inhalation | Long-term systemic effects | 74.3 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 210 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 210 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 105 mg/m3 |
| n-butyl methacrylate | Workers | Inhalation | Long-term systemic effects | 415.9 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 409 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 5 mg/kg |
| | Consumers | Inhalation | Long-term local effects | 366.4 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 66.5 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 3 mg/kg |

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| | | | | |
|------------------|---------|--------------|--|-----------------------|
| maleic anhydride | Workers | Inhalation | Acute systemic effects | 0.8 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 0.8 mg/m ³ |
| | Workers | Inhalation | long term – systemic and local effects | 0.4 mg/m ³ |
| | Workers | Skin contact | long term – systemic and local effects | 0.04 mg/kg |
| | Workers | Skin contact | Acute systemic effects | 0.04 mg/kg |
| | Workers | Skin contact | Acute local effects | 0.04 mg/kg |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|-------------------------------|---------------------------|-------------------------------|
| xylene | Fresh water | 0.327 mg/l |
| | Marine water | 0.327 mg/l |
| | Fresh water sediment | 12.46 mg/kg dry weight (d.w.) |
| | Marine sediment | 12.46 mg/kg dry weight (d.w.) |
| | Soil | 2.31 mg/kg dry weight (d.w.) |
| | STP | 6.58 mg/l |
| | periodical release | 0.327 mg/l |
| aluminium powder (stabilised) | Fresh water | 0.0749 mg/l |
| | clarification plant | 20 mg/l |
| | | |
| n-butyl acetate | Fresh water | 0.18 mg/l |
| | Marine water | 0.018 mg/l |
| | STP | 35.6 mg/l |
| | Fresh water sediment | 0.981 mg/kg |
| | Marine sediment | 0.098 mg/kg |
| | Soil | 0.0903 mg/kg |
| butan-1-ol | Fresh water | 0.082 mg/l |
| | Marine water | 0.0082 mg/l |
| | Intermittent Release | 2.25 mg/l |
| | STP | 2476 mg/l |
| | Fresh water sediment | 0.178 mg/kg |
| | Marine sediment | 0.0178 mg/kg |
| methyl 2-methylprop-2-enoate | Fresh water | 0.94 mg/l |
| | Fresh water sediment | 5.74 mg/kg |
| | Soil | 1.47 mg/kg |
| n-butyl methacrylate | Fresh water | 0.169 mg/l |
| | Marine water | 0.169 mg/l |
| maleic anhydride | Fresh water | 0.04281 mg/l |
| | Fresh water sediment | 0.344 mg/kg |
| | Marine water | 0.004281 mg/l |
| | Marine sediment | 0.0334 mg/kg |
| | Soil | 0.0415 mg/l |
| | periodical release | 0.4281 mg/l |
| | STP | 44.6 mg/l |

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8.2 Exposure controls

Personal protective equipment

- Eye/face protection : Goggles
Wear face-shield and protective suit for abnormal processing problems.
- Hand protection
Material : Solvent-resistant gloves (butyl-rubber)
- Remarks : 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). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.
-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : No data available
- Odour : characteristic
- Odour Threshold : No data available
- Freezing point : No data available
- Boiling point/boiling range : 116 °C
- Flammability : No data available
- Upper explosion limit / Upper flammability limit : No data available
-

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Lower explosion limit / Lower flammability limit : No data available

Flash point : 27 °C

Auto-ignition temperature : Not relevant

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity

 Viscosity, dynamic : see user defined free text

 Viscosity, kinematic : No data available

Flow time : 40 - 60 s at 20 °C
Cross section: 4 mm
Method: DIN 53211

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Density : ca. 0.98 g/cm³

Relative vapour density : No data available

Particle Size Distribution : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

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Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids
Bases
Oxidizing agents

10.6 Hazardous decomposition products

This information is not available.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

xylene:

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

aluminium powder (stabilised):

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Solvent naphtha (petroleum), light arom.:

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Acute oral toxicity : LD50 (Rat): 3,492 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): Test atmosphere: vapour
Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

maleic anhydride:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

xylene:

Result : Skin irritation

butan-1-ol:

Result : Skin irritation

maleic anhydride:

Result : Severe skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : Eye irritation

Components:

xylene:

Result : Eye irritation

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butan-1-ol:

Result : Irreversible effects on the eye

maleic anhydride:

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

maleic anhydride:

Assessment : May cause sensitisation by skin contact.

Assessment : Probability or evidence of high respiratory sensitisation rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light arom.:

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Carcinogenicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light arom.:

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

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Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

Components:

xylene:

Assessment : May cause respiratory irritation.

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

Solvent naphtha (petroleum), light arom.:

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

butan-1-ol:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.,
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

xylene:

Target Organs : Central nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

maleic anhydride:

Assessment : Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

xylene:

May be fatal if swallowed and enters airways.

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Solvent naphtha (petroleum), light arom.:

May be fatal if swallowed and enters airways.

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Solvent naphtha (petroleum), light arom.:

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

No data available

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12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Components:

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:

Additional ecological information : No data available

SECTION 13: Disposal considerations

European Waste Catalogue : 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
In accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1263
IMDG : UN 1263
IATA : UN 1263

14.2 UN proper shipping name

ADR : PAINT
IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

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| | Class | Subsidiary risks |
|-------------|-------|------------------|
| ADR | : 3 | |
| IMDG | : 3 | |
| IATA | : 3 | |

14.4 Packing group

| | |
|--|------------|
| ADR | |
| Packing group | : III |
| Classification Code | : F1 |
| Hazard Identification Number | : 30 |
| Labels | : 3 |
| Tunnel restriction code | : (D/E) |
| IMDG | |
| Packing group | : III |
| Labels | : 3 |
| EmS Code | : F-E, S-E |
| IATA (Cargo) | |
| Packing instruction (cargo aircraft) | : 366 |
| Packing instruction (LQ) | : Y344 |
| Packing group | : III |
| Labels | : 3 |
| IATA (Passenger) | |
| Packing instruction (passenger aircraft) | : 355 |
| Packing instruction (LQ) | : Y344 |
| Packing group | : III |
| Labels | : 3 |

14.5 Environmental hazards

| | |
|---------------------------|------|
| ADR | |
| Environmentally hazardous | : no |
| IMDG | |
| Marine pollutant | : no |

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3
xylene (Number on list 3)
n-butyl acetate (Number on list 3)
aluminium powder (stabilised) (Number on list 40)
Solvent naphtha (petroleum), light arom. (Number on list 3)
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha (Number on list 3)
butan-1-ol (Number on list 3)
methyl 2-methylprop-2-enoate (Number on list 40, 3)
n-butyl methacrylate (Number on list 40, 3)
ethylbenzene (Number on list 40, 3)
propan-2-ol (Number on list 3)
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable
- Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 59.76 %, 585.69 g/l

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

- H225 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.
H228 : Flammable solid.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
-

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- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H332 : Harmful if inhaled.
- H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 : May cause respiratory irritation.
- H336 : May cause drowsiness or dizziness.
- H372 : Causes damage to organs through prolonged or repeated exposure.
- H373 : May cause damage to organs through prolonged or repeated exposure.
- H411 : Toxic to aquatic life with long lasting effects.
- EUH066 : Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Aquatic Chronic : Long-term (chronic) aquatic hazard
- Asp. Tox. : Aspiration hazard
- Eye Dam. : Serious eye damage
- Eye Irrit. : Eye irritation
- Flam. Liq. : Flammable liquids
- Flam. Sol. : Flammable solids
- Resp. Sens. : Respiratory sensitisation
- Skin Corr. : Skin corrosion
- Skin Irrit. : Skin irritation
- Skin Sens. : Skin sensitisation
- STOT RE : Specific target organ toxicity - repeated exposure
- STOT SE : Specific target organ toxicity - single exposure
- 2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
- 2009/161/EU : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
- 2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
- GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
- GB EH40 BAT : UK. Biological monitoring guidance values
- 2000/39/EC / TWA : Limit Value - eight hours
- 2000/39/EC / STEL : Short term exposure limit
- 2009/161/EU / TWA : Limit Value - eight hours
- 2009/161/EU / STEL : Short term exposure limit
- 2019/1831/EU / TWA : Limit Value - eight hours
- 2019/1831/EU / STEL : Short term exposure limit
- GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
- GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the

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Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

| | |
|-------------------|------|
| Flam. Liq. 3 | H226 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Skin Sens. 1 | H317 |
| STOT SE 3 | H336 |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |
| Asp. Tox. 1 | H304 |
| Aquatic Chronic 3 | H412 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

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specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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