

## Safety Data Sheet

Page 1 of 12

| BASF Safety Dat | a Sheet    |                                     |
|-----------------|------------|-------------------------------------|
| Date / Revised: | 23.11.2023 | Version 4.1                         |
| Product:        | OPUS®      |                                     |
|                 |            | (Ref ID no. 30035191/SDS CPA NZ/EN) |

## 1. Identification

**Product identifier** 

## **OPUS**<sup>®</sup>

## Recommended uses and restrictions on use (if any)

<u>Recommended use:</u> crop protection product, fungicide.

<u>Restricted use:</u> Use according to label.

## Manufacturer / Supplier

BASF New Zealand Limited 5E City Works Depot, 77 Cook Street Auckland 1010 NEW ZEALAND Phone:

+ 64 9 255 4300 0800 932 273 reception@basf-nz.co.nz

E-mail address:

**Emergency telephone number** 

National Poisons Centre: BASF Emergency Advice Number:

0800 764 766 0800 944 955 (24 hour advice in an emergency only)

## 2. Hazard Identification

## Classification of the substance or mixture

| Reproductive toxicity                            | : | Category 2 |
|--|---|------------|
| Specific target organ toxicity - repeat exposure | : | Category 2 |
| Aquatic environment - chronic                    | : | Category 3 |

## **GHS Label Elements, including Precautionary Statements:**

Signal Word: WARNING.

Pictograms:



(Ref ID no. 30035191/SDS\_CPA\_NZ/EN)

| GHS Hazard Statements                                |     |   |  |
|--|-----|---|--|
| H361   | :   | Suspected of damaging fertility or the unborn child.                          |  |
| H373   | :   | May cause damage to organs through prolonged or repeated exposure.            |  |
| H412   | :   | Harmful to aquatic life with long lasting effects.                            |  |
|  |     |   |  |
| GHS Precautionary                                    | Sta | <u>itements (Prevention)</u>  |  |
| P103   | :   | Read label before use.  |  |
| P201   | :   | Obtain special instructions before use.                                       |  |
| P202   | :   | Do not handle until all safety precautions have been read and understood.     |  |
| P260   | :   | Do not breathe mist, vapours and spray.                                       |  |
| P281   | :   | Use personal protective equipment as required.                                |  |
|  |     |   |  |
| GHS Precautionary                                    | Sta | <u>itements (Response)</u>  |  |
| P308 + P313  | :   | IF exposed or concerned: Get medical advice/attention.                        |  |
| P314   | :   | Get medical advice / attention if you feel unwell.                            |  |
|  | ~   |   |  |
| GHS Precautionary                                    | Sta |   |  |
| P405   | :   | Store locked up   |  |
| GHS Precautionary Statements (Disposal):             |     |   |  |
| P501   |     | Dispose of contents/container to hazardous or special waste collection point. |  |
| 1 301  | •   | Information regarding disposal considerations can be found in section 13.     |  |
| Other hazards  |     |   |  |
| No other hazards known.                              |     |   |  |
| See section 12 - Results of PBT and vPvB assessment. |     |   |  |
| See Section 12 - Results of PDT and VPVD assessment. |     |   |  |
|  |     |   |  |

To avoid risks to human health and the environment, comply with the instructions for use. If applicable, information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## 3. Composition/Information on Ingredients

## Substances

Not applicable

## Mixtures

Hazardous ingredients (GHS) According to UN GHS criteria

| Epoxiconazole<br>Content (W/W):<br>CAS Number:  | 11.96 %<br>133855-98-8 |  |
|---|------------------------|--|
| Alcohols, C16-18, ethoxylated prop  | oxylated               |  |
| Content (W/W):  | <25 %                  |  |
| CAS Number:   | 68002-96-0             |  |
| Solvent naphtha   |                        |  |
| Content (W/W):  | <20 %                  |  |
| CAS Number:   | 64742-94-5             |  |
| Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt<br>Content (W/W): <5 %<br>CAS Number: 102980-04-1 |                        |  |

(Ref ID no. 30035191/SDS\_CPA\_NZ/EN)

| Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |            |  |
|--|------------|--|
| Content (W/W):   | <0.05 %    |  |
| CAS Number:  | 55965-84-9 |  |
|  |            |  |
| Propane-1,2-diol   |            |  |
| Content (W/W):   | <15 %      |  |
| CAS Number:  | 57-55-6    |  |

## 4. First-Aid Measures

## Description of necessary first aid measures

## General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

## On skin contact:

Immediately wash thoroughly with soap and water.

## On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

#### Symptoms:

Information, i.e. additional information on symptoms and effects may be included in the GHS labelling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far.

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

## Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

#### Medical advice:

Contact the National Poisons and Hazardous Chemicals Information centre. Phone 0800 POISON (0800 764 766).

## 5. Fire-Fighting Measures

## Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide

## Unsuitable extinguishing media for safety reasons Water jet

## **Specific hazards**

carbon monoxide, hydrogen chloride, carbon dioxide, hydrogen fluoride, nitrogen oxides, halogenated compounds, sulfur oxides The substances/groups of substances mentioned can be released in case of fire.

(Ref ID no. 30035191/SDS\_CPA\_NZ/EN)

No specific precautions necessary. The substance is non-combustible. Product is not explosive.

## Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and chemical-protective clothing.

## **Precautions for fire-fighters**

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. Accidental Release Measures

## Personal precautions, Protective equipment and Emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

## **Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

## Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

## 7. Handling and Storage

## Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

<u>Further information on storage conditions:</u> Keep away from heat. Protect from direct sunlight.

Storage stability: 36 months.

Protect from temperatures below 5°C. Changes in the properties of the product may occur if substance / product is stored below indicated temperature for extended periods of time.

Protect from temperatures above 30°C. The packed product must be protected against exceeding the indicated temperature.

(Ref ID no. 30035191/SDS\_CPA\_NZ/EN)

## 8. Exposure Controls/Personal Protection

## **Control parameters**

| Occupational exposure limits            |   |
|---|---|
| Component:                              | Propane-1,2-diol  |
| CAS Number:                             | 57-55-6   |
| TWA Value:                              | 10 mg/m <sup>3</sup> Particulate (source: WES 2022)   |
| TWA Value:                              | 150 ppm / 474 mg/m <sup>3</sup> Vapour and Particulates (source: WES 2022)  |
| Component:<br>CAS Number:<br>TWA Value: | Solvent naphtha<br>64742-94-5<br>200 mg/m <sup>3</sup> Non-aerosol (source: ACGIHTLV)<br>Measured as: total hydrocarbon vapour.<br>Application restricted to conditions in which there are negligible<br>aerosol exposures. |
| Skin designation:                       | Danger of cutaneous absorption Non-aerosol (source: ACGIHTLV)<br>Measured as: total hydrocarbon vapour.   |
| Component:                              | Epoxiconazole   |
| CAS Number:                             | 133855-98-8   |
| TWA Value:                              | 0.3 mg/m <sup>3</sup> Respirable dust (source: Recommendation of BASF)  |
| Component:                              | Naphthalene, 1-methyl-,   |
| CAS Number:                             | 90-12-0   |
| TWA Value:                              | 0.5 ppm (source: ACGIHTLV)  |
| Skin designation:                       | Danger of cutaneous absorption (source: ACGIHTLV)   |
| Component:                              | Naphthalene, 2-methyl-,   |
| CAS Number:                             | 91-57-6   |
| TWA Value:                              | 0.5 ppm (source: ACGIHTLV)  |
| Skin designation:                       | The substance can be absorbed through the skin (source:   |
| Skin designation:                       | ACGIHTLV)<br>Danger of cutaneous absorption (source: ACGIHTLV)  |

## **Engineering controls**

Maintain air concentrations below occupational exposure standards.

## Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK P3).

## Hand protection:

Suitable chemical resistant safety gloves (EN 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

## Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

## General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling cropprotection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

| Form:<br>Colour:<br>Odour:                             | Liquid<br>Pale beige<br>Characteristic, of hydrocarbons   |
|--|---|
| Odour threshold:<br>pH value:                          | Not determined since harmful by inhalation<br>Approx. 5.5 – 7.5 (20°C)<br>(Measured with the undiluted substance)   |
| Crystallisation temperature:<br>Boiling range:         | Approx11.5°C<br>Approx. 100°C (1,013.25 hPa)<br>(Information applies to the solvent)  |
| Flash point:<br>Evaporation rate:<br>Flammability:     | No flash point – measurement made up to the boiling point.<br>Not applicable<br>Not applicable  |
| Lower explosion limit:                                 | As a result of our experience with this product and our knowledge<br>of its composition we do not expect any hazard as long as the<br>product is used appropriately and in accordance with the intended<br>use. |
| Upper explosion limit:                                 | As a result of our experience with this product and our knowledge<br>of its composition we do not expect any hazard as long as the<br>product is used appropriately and in accordance with the intended<br>use. |
| Ignition temperature:                                  | Approx. 420°C   |
| Vapour pressure:                                       | Approx. 23.4 hPa (20°C)<br>(Information applies to the solvent)   |
| Density:   | Approx. 1.05 g/cm <sup>3</sup> (20°C)   |
| Relative vapour density (air):<br>Solubility in water: | Not applicable<br>Dispersible   |
| Partitioning coefficient n-                            |   |
| octanol/water (log Pow):                               | Not applicable  |
| Thermal decomposition:<br>Explosion hazard:            | No decomposition if stored and handled as prescribed / indicated.<br>Based on the chemical structure there is no indication of explosive<br>properties.   |
| Fire promoting properties:                             | Based on its structural properties the product is not classified as oxidizing.  |
| Viscosity, dynamic:                                    | Approx. 72.9 mPa.s (40°C, 100 1/s)  |
| Viscosity, kinematic:                                  | 70.3 mm2/s (40°C)   |

## 10. Stability and Reactivity

## Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

## **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

## Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

## Conditions to avoid

See SDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed / indicated.

## Incompatible materials / Substances to avoid

Strong acids, strong bases, strong oxidizing agents

#### Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

> 2 000 mm m//cm

## 11. Toxicological Information

#### Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after short-term inhalation. Virtually non-toxic after single ingestion. Virtually non-toxic after a single skin contact.

Experimental/calculated data:

| LD50 rat (oral):          | No mortality was observed.                 |
|---------------------------|--|
| LC50 rat (by inhalation): | 3.25 mg/l 4 h<br>An aerosol was tested.    |
| LD50 rat (dermal):        | >4,000 mg/kg<br>No mortality was observed. |

## **Skin Corrosion / Irritation**

<u>Assessment of irritating effects:</u> Not irritating to the skin.

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant

## Serious Eye Damage / Irritation

<u>Assessment of irritating effects:</u> Not irritating to the eyes.

Experimental/calculated data: Serious eye damage/irritation rabbit: non-irritant.

#### **Respiratory or Skin sensitization**

<u>Assessment of sensitization:</u> There is no evidence of a skin-sensitising potential.

Experimental/calculated data: Modified Buehler test guinea pig: Skin sensitising effects were not observed in animal studies.

## Germ cell mutagenicity

Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

(Ref ID no. 30035191/SDS\_CPA\_NZ/EN)

Information on: Epoxiconazole <u>Assessment of carcinogenicity:</u> Indication of possible carcinogenic effect in animal tests.

## **Reproductive toxicity**

<u>Assessment of reproduction toxicity:</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole: <u>Assessment of reproduction toxicity:</u> The results of animal studies suggest a fertility impairing effect.

## **Developmental toxicity**

#### Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole <u>Assessment of teratogenicity:</u> Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

## Specific target organ toxicity (single exposure)

## Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

## Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

Information on: mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. Based on available data, the classification criteria are not met.

## **Aspiration hazard**

No aspiration hazard expected. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Other relevant toxicity information

Misuse can be harmful to health.

## **12. Ecological Information**

## **Ecotoxicity - Aquatic**

<u>Assessment of aquatic toxicity:</u> Harmful to aquatic life with long lasting effects. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

| <u>Toxicity to fish:</u><br>LC50 (96 h):               | 0.42 mg/l, Oncorhynchus mykiss   |
|--|--|
| <u>Aquatic invertebrates:</u><br>EC50 (48 h):          | 3.1 mg/l, <i>Daphnia magna</i>   |
| <u>Aquatic plants:</u><br>EC50 (72 h):<br>EC10 (72 h): | 1.52 mg/l, growth rate, <i>Pseudokirchneriella subcapitata</i><br>0.0072 mg/l, growth rate, <i>Pseudokirchneriella subcapitata</i> |
| Ecotoxicity - Terrestrial                              |  |

## Assessment of terrestrial toxicity:

Not hazardous to terrestrial vertebrates. The product has not been tested. The statement has been derived from the properties of the active ingredient.

| Toxicity to birds:<br>Acute oral LD50:                             | >2000 mg ai/l, <i>Colinus virginianus</i> , Epoxiconazole   |
|--|---|
| <u>Toxicity to soil organisms:</u><br>LC50 (14d):                  | >500 mg ai/kg, <i>Eisenia fetida</i> , Epoxiconazole  |
| <u>Toxicity to Pollinators:</u><br>LD50 (oral):<br>LD50 (contact): | >83 μg ai/bee, <i>Apis mellifera</i> , Epoxiconazole<br>>100 μg ai/bee, <i>Apis mellifera</i> , Epoxiconazole |

## Persistence and degradability

<u>Assessment biodegradation and elimination (H2O):</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole <u>Assessment biodegradation and elimination (H2O)</u>: Not readily biodegradable.

## **Bioaccumulative potential**

<u>Assessment bioaccumulation potential:</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole <u>Bioaccumulation potential</u>: Bioconcentration factor: 59 - 70, *Oncorhynchus mykiss* Does not accumulate in organisms.

## Mobility in soil

<u>Assessment transport between environmental compartments:</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

<u>Assessment transport between environmental compartments:</u> Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

## Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### Other adverse effects

<u>Other ecotoxicological advice:</u> Do not discharge product into the environment without control. Do not apply onto or into water.

## **13. Disposal Considerations**

## Container:

Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, <u>www.agrecovery.co.nz</u>). Do not use container for any other purpose.

#### **Product:**

Dispose of this product only by using according to the label or at an approved facility. Do NOT burn product. Do NOT contaminate water with product or used container. Waste product/packaging may be sent to a suitable incineration plant, observing local regulations.

## **Contaminated Packaging:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance / product.

## 14. Transport Information

## **Commercial transport:**

Classified as dangerous good(s) for Land/rail (ADR/RID), sea (IMDG) and air transport (ICAO/IATA):

## Land / Rail / Road (ADR/RID):

| UN number:<br>UN proper shipping name:   | UN 3082<br>ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S. (contains fatty<br>alcohol alkoxylate, solvent naphtha, Epoxiconazole) |
|--|--|
| Transport hazard class(es) / UN DG Class:<br>Packing group:<br>Environmental hazards:<br>HAZCHEM:<br>IERG Number:<br>Special precautions when transporting the<br>substance: | 9, (EHSM)<br>III<br>Marine pollutant<br>3Z<br>47<br>None known   |

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## Sea transport (IMDG):

UN number: UN proper shipping name:

Transport hazard class(es): Packing group: Environmental hazards: Marine pollutant: Special precautions when transporting the substance:

## Air transport (IATA / ICAO):

UN number: UN proper shipping name:

Transport hazard class(es): Packing group: Environmental hazards: Special precautions when transporting the substance: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains fatty alcohol alkoxylate, solvent naphtha, Epoxiconazole) 9, EHSM III marine pollutant Yes None known

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains fatty alcohol alkoxylate, solvent naphtha, Epoxiconazole) 9, EHSM III Yes, marine pollutant None known

#### **Additional Information:**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3).

## 15. Regulatory Information

#### **HSNO Approval Number**

HSR000723. See www.epa.govt.nz for approval conditions.

#### **Tolerable Exposure Limit or Environmental Exposure Limit**

| TEL: | None set |
|------|----------|
| EEL: | None set |

## **Relevant Regulatory Requirements**

| Qualifications:               | Not required   |
|-------------------------------|----------------|
| Certified Handler:            | Not required   |
| Tracking:                     | Not required   |
| Record Keeping:               | Not required   |
| Restricted to Workplace:      | Not applicable |
| Controlled substance licence: | Not required   |

#### **ACVM Registration**

P004365 See www.foodsafety.govt.nz/acvm for registration conditions.

# International Agreements related to the substance such as Montreal Protocol, the Stockholm Convention or Rotterdam Convention

not applicable

## 16. Other Information

## Date of preparation of the SDS

23 November 2023

## Key or legend to abbreviations and acronyms used

| ACGIH<br>ACVM<br>ADN<br>ADR/RID<br>DG<br>EC50<br>EEL<br>EHSM<br>EPA<br>EU<br>GHS<br>ICAO<br>IATA<br>IERG<br>IMDG<br>LD50<br>NOEC<br>N.O.S.<br>OEL<br>PBT or vPvP<br>SDS<br>STOT<br>TDG<br>TEL<br>TLVS | The American Conference of Governmental Industrial Hygienists<br>Agricultural Compounds and Veterinary Medicines<br>International Carriage of Dangerous Goods by Inland Waterways (EU)<br>Dangerous Goods for Road / Rail<br>Dangerous Goods<br>Median effective concentration<br>Environmental Exposure Limit<br>Environmental Health and Safety Management<br>Environmental Health and Safety Management<br>Environmental Protection Authority<br>European Union<br>Globally Harmonised System<br>International Civil Aviation Organisation<br>International Air Transport Association<br>International Ameritime Dangerous Goods<br>Lethal concentration to 50% of the test population<br>Not Otherwise Specified<br>Operator Exposure Limits<br>Persistent / Bioaccumulative / Toxic or very Persistent / very Bioaccumulative<br>Safety Data Sheet<br>Specific Target Organ Toxicity<br>Transportation of Dangerous Goods<br>Tolerable Exposure Limit<br>Threshold Limit Values |
|---|--|
| TLVs<br>UN GHS<br>WES   | Threshold Limit Values<br>United Nations Globally Harmonised System<br>Workplace Exposure Standards  |
| 49CFR   | Code of Federal Regulations Title 49 for Transportation  |

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.