

# Safety data sheet

Page: 1/13

BASF Safety data sheet

Date / Revised: 17.10.2016

Product: **PARAGON XTRA HERBICIDE**

Version: 2.0

(30604499/SDS\_CPA\_AU/EN)

Date of print 18.10.2016

## 1. Substance/preparation and manufacturer/supplier identification

### PARAGON XTRA HERBICIDE

Use: crop protection product, herbicide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)

Level 12, 28 Freshwater Place Southbank

Victoria 3006, AUSTRALIA

Telephone: +61 3 8855-6600

Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]

BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

## Classification of the substance and mixture:

Aspiration hazard: Cat. 1

Acute toxicity: Cat. 4 (oral)

Acute toxicity: Cat. 3 (Inhalation - mist)

Acute toxicity: Cat. 4 (dermal)

Serious eye damage/eye irritation: Cat. 2A

Skin sensitization: Cat. 1

Carcinogenicity: Cat. 2

Reproductive toxicity: Cat. 2 (unborn child)

Specific target organ toxicity — single exposure: Cat. 3 (Vapours may cause drowsiness and dizziness.)

Hazardous to the aquatic environment - acute: Cat. 1

Hazardous to the aquatic environment - chronic: Cat. 1

Label elements and precautionary statement:

Pictogram:



Signal Word:

Danger

Hazard Statement:

Causes serious eye irritation. Harmful in contact with skin. Toxic if inhaled. Harmful if swallowed. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/gas/mist/vapours. Do not handle until all safety precautions have been read and understood. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

IF exposed or concerned: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician. Take off immediately all contaminated clothing. IF SWALLOWED: rinse mouth. Collect spillage. Do NOT induce vomiting. If eye irritation persists: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage):

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements (Disposal):

Dispose of contents/container to hazardous or special waste collection point.

Other hazards which do not result in classification:

See section 12 - Results of PBT and vPvB assessment.

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.

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### 3. Composition/information on ingredients

#### Chemical nature

crop protection product, herbicide, Emulsifiable concentrate (EC)

BASF Safety data sheet  
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(30604499/SDS\_CPA\_AU/EN)

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Preparation based on: MCPA TECHNICAL, Bromoxynil

#### Hazardous ingredients

|  |  |
|--|--|
| Acetic acid, (4-chloro-2-methylphenoxy)-, 2-ethylhexyl ester |  |
| Content (W/W): 47.9 %  | Acute Tox.: Cat. 4 (Inhalation - vapour)   |
| CAS Number: 29450-45-1                                       | Acute Tox.: Cat. 4 (oral)                  |
|  | Acute Tox.: Cat. 4 (dermal)                |
|  | Aquatic Acute: Cat. 1                      |
|  | Aquatic Chronic: Cat. 1                    |
| 2,6-dibromo-4-cyanophenyl octanoate                          |  |
| Content (W/W): 26.8 %  | Acute Tox.: Cat. 3 (Inhalation - dust)     |
| CAS Number: 1689-99-2  | Acute Tox.: Cat. 4 (oral)                  |
|  | Skin Sens.: Cat. 1                         |
|  | Repr.: Cat. 2 (unborn child)               |
|  | Aquatic Acute: Cat. 1                      |
|  | Aquatic Chronic: Cat. 1                    |
| Picolinafen  |  |
| Content (W/W): 3.1 %   | Aquatic Acute: Cat. 1                      |
| CAS Number: 137641-05-5                                      | Aquatic Chronic: Cat. 1                    |
| Hydrocarbons, C10, aromatics, >1% naphthalene                |  |
| Content (W/W): < 25 %  | Asp. Tox.: Cat. 1                          |
| CAS Number: 64742-94-5                                       | Flam. Liq.: Cat. 4                         |
|  | Carc.: Cat. 2                              |
|  | STOT SE: Cat. 3 (drowsiness and dizziness) |
|  | Aquatic Acute: Cat. 2                      |
|  | Aquatic Chronic: Cat. 2                    |

## 4. 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). Immediately 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, seek medical attention.

#### On contact with eyes:

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

BASF Safety data sheet  
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**On ingestion:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

**Note to physician:**

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

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## 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, carbon dioxide, hydrogen fluoride, hydrogen chloride, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

**Special protective equipment:**

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

**Further information:**

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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.

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## 6. Accidental Release Measures

**Personal precautions:**

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 for cleaning up or taking 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 labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Cleaning operations should be carried out only while wearing breathing apparatus.

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## 7. Handling and Storage

### 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. Remove contaminated clothing and protective equipment before entering eating areas.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

## 8. Exposure controls and personal protection

### Components with occupational exposure limits

No occupational exposure limits known.

### 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, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): 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 crop-protection 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:   | liquid  |                            |
| Colour:   | clear<br>amber to brown   |                            |
| Odour:  | of the solvent contained in the product   |                            |
| Odour threshold:                                    | Not determined due to potential health hazard by inhalation.                    |                            |
| pH value:   | approx. 3.5 - 5.5<br>(1 %(m), approx. 20 °C)                                    |                            |
| Melting point:                                      | < 0 °C  |                            |
| Boiling range:                                      | approx. 179 - 214 °C<br>Information applies to the solvent.                     |                            |
| Flash point:  | 75 °C   |                            |
| Evaporation rate:                                   | not applicable  |                            |
| Flammability (solid/gas):                           | Product is combustible.   |                            |
| Lower explosion limit:                              | 0.6 %(V)<br>Information applies to the solvent.                                 |                            |
| Upper explosion limit:                              | 7 %(V)<br>Information applies to the solvent.                                   |                            |
| Ignition temperature:                               | >= 425 °C<br>Information applies to the solvent.                                |                            |
| Thermal decomposition:                              | No decomposition if stored and handled as prescribed/indicated.                 |                            |
| Explosion hazard:                                   | Based on the chemical structure there is no indicating of explosive properties. |                            |
| Fire promoting properties:                          | Based on its structural properties the product is not classified as oxidizing.  |                            |
| Vapour pressure:                                    | approx. 0.1 kPa<br>(20 °C)<br>Information applies to the solvent.               |                            |
| Density:  | approx. 1.13 - 1.15 g/cm <sup>3</sup><br>(20 °C)                                |                            |
| Relative vapour density (air):                      | not applicable  |                            |
| Solubility in water:                                | emulsifiable  |                            |
| Information on: Picolinafen                         |   |                            |
| Partitioning coefficient n-octanol/water (log Pow): | 4.7<br>(20 °C; pH value: 7)   | (Directive 92/69/EEC, A.8) |

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Viscosity, dynamic: approx. 143 mPa.s  
(20 °C)  
Information based on the main  
components.

**Other Information:**

If necessary, information on other physical and chemical parameters is indicated in this section.

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## 10. Stability and Reactivity

**Conditions to avoid:**

See MSDS section 7 - Handling and storage.

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

**Substances to avoid:**

strong acids, strong bases, strong oxidizing agents

**Hazardous reactions:**

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

**Hazardous decomposition products:**

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

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## 11. Toxicological Information

### Acute toxicity

**Assessment of acute toxicity:**

The product has not been tested. The statement has been derived from the properties of the individual components. Of moderate toxicity after single ingestion. Of moderate toxicity after short-term skin contact. Of high toxicity after short-term inhalation.

**Information on: MCPA 2EH-Ester techn.****Experimental/calculated data:**

LD50 rat (oral): 1,046 mg/kg

**Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate****Experimental/calculated data:**

LD50 rat (oral): 238 mg/kg

**Information on: Picolinafen****Experimental/calculated data:**

LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

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**Information on: MCPA 2EH-Ester techn.****Experimental/calculated data:**

LC50 (by inhalation): > 2.64 mg/l 4 h

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate

BASF Safety data sheet  
Date / Revised: 17.10.2016  
Product: **PARAGON XTRA HERBICIDE**

Version: 2.0

(30604499/SDS\_CPA\_AU/EN)

Date of print 18.10.2016

Experimental/calculated data:  
LC50 rat (by inhalation): 0.72 mg/l 4 h

Information on: Picolinafen  
Experimental/calculated data:  
LC50 rat (by inhalation): > 5.9 mg/l 4 h (OECD Guideline 403)  
No mortality was observed.  
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Information on: MCPA 2EH-Ester techn.  
Experimental/calculated data:  
LD50 rabbit (dermal): > 2,000 mg/kg

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate  
Experimental/calculated data:  
LD50 rabbit (dermal): 1,310 mg/kg

Information on: Picolinafen  
Experimental/calculated data:  
LD50 rat (dermal): > 4,000 mg/kg (OECD Guideline 402)  
No mortality was observed.  
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## Irritation

Assessment of irritating effects:  
The product has not been tested. The statement has been derived from the properties of the individual components. Skin contact causes slight irritation. May cause severe damage to the eyes.

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate  
Experimental/calculated data:  
Skin corrosion/irritation rabbit:  
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Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate  
Experimental/calculated data:  
Serious eye damage/irritation rabbit:  
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## Respiratory/Skin sensitization

Assessment of sensitization:  
The product has not been tested. The statement has been derived from the properties of the individual components. Sensitization after skin contact possible.

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate  
Experimental/calculated data:  
guinea pig:  
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## Germ cell mutagenicity

Assessment of mutagenicity:



(30604499/SDS\_CPA\_AU/EN)

Date of print 18.10.2016

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

### **Carcinogenicity**

Assessment of carcinogenicity:

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

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.

Information on: TO BE DELETED - Hydrocarbons, C10, aromatics, >1% naphthalene

Assessment of carcinogenicity:

Long-term exposure to highly irritating concentrations resulted in skin tumors in animals. A carcinogenic effect in humans can be excluded after brief skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Reproductive toxicity**

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of 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: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate

Assessment of teratogenicity:

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

### **Specific target organ toxicity (single exposure):**

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

### **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: Picolinafen

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

### Aspiration hazard

May also damage the lung at swallowing (aspiration hazard).

### Other relevant toxicity information

Misuse can be harmful to health. Has a degreasing effect on skin.

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## 12. Ecological Information

### Ecotoxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: MCPA 2EH-Ester techn.

Toxicity to fish:

LC50 (96 h) > 5.8 mg/l, *Oncorhynchus mykiss*

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate

Toxicity to fish:

LC50 (96 h) 0.041 mg/l, *Oncorhynchus mykiss*

LC50 (96 h) 53 ppb, *Lepomis macrochirus*

LC50 (96 h) 170 ppb, *Cyprinodon variegatus*

Information on: Picolinafen

Toxicity to fish:

LC50 (96 h) > 0.68 mg/l, *Oncorhynchus mykiss*  
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Information on: MCPA 2EH-Ester techn.

Aquatic invertebrates:

EC50 (48 h) 0.3 mg/l, *Daphnia* sp.

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate

Aquatic invertebrates:

EC50 (48 h) 0.046 mg/l, *Daphnia magna*

Information on: Picolinafen

Aquatic invertebrates:

EC50 (48 h) > 0.45 mg/l, *Daphnia magna*  
-----

Information on: MCPA 2EH-Ester techn.

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate

Aquatic plants:

EC50 (120 h) 0.22 mg/l, *Scenedesmus subspicatus*

Information on: Picolinafen

Aquatic plants:

EC50 (72 h) 0.00018 mg/l, *Pseudokirchneriella subcapitata*  
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### **Mobility**

Assessment transport between environmental compartments:

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

Information on: Picolinafen

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.  
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### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

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

Information on: MCPA 2EH-Ester techn.

Information on: bromoxynil octanoate (ISO); 2,6-dibromo-4-cyanophenyl octanoate

Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (by OECD criteria).

Information on: Picolinafen  
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### **Bioaccumulation potential**

Assessment bioaccumulation potential:

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

Information on: MCPA 2EH-Ester techn.

Information on: Picolinafen

Bioaccumulation potential:

Bioconcentration factor: 580

Accumulation in organisms is not to be expected.  
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### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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### 13. Disposal Considerations

Must 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

#### Domestic transport:

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ETHYLHEXYL-(4-CHLORO-2-METHYLPHENOXY)ACETATE, BROMOXYNIL OCTANOATE)

#### Further information

Hazchem Code:3Z  
IERG Number:47

#### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ETHYLHEXYL-(4-CHLORO-2-METHYLPHENOXY)ACETATE, BROMOXYNIL OCTANOATE)

#### Air transport

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ETHYLHEXYL-(4-CHLORO-2-METHYLPHENOXY)ACETATE, BROMOXYNIL OCTANOATE)

#### Further information

BASF Safety data sheet  
Date / Revised: 17.10.2016  
Product: **PARAGON XTRA HERBICIDE**

Version: 2.0

---

(30604499/SDS\_CPA\_AU/EN)

Date of print 18.10.2016

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 kg(L) or IBCs.

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## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 6

### **Registration status:**

AICS, AU released w/o restriction f. BASF / not listed  
APVMA Approval 69558

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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.