

# Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 27.05.2025

Version: 9.0

Date / Previous version: 29.06.2023

Previous version: 8.0

Product: **Chronicle®**

(ID no. 30857265/SDS\_CPA\_GB/EN)

Date of print 26.06.2025

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

### 1.1. Product identifier

**Chronicle®**

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

Relevant identified uses: crop protection product, herbicide

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

Company:

BASF SE  
67056 Ludwigshafen  
GERMANY

Contact address:

BASF plc  
4th and 5th Floors, 2 Stockport Exchange  
Railway Road, Stockport, SK1 3GG  
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

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#### According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| Skin Sens. 1      | H317 May cause an allergic skin reaction.                  |
| Repr. 2           | H361d Suspected of damaging the unborn child.              |
| Aquatic Acute 1   | H400 Very toxic to aquatic life.                           |
| Aquatic Chronic 1 | H410 Very toxic to aquatic life with long lasting effects. |

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

#### According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Warning

Hazard Statement:

|        |                                                                                           |
|--------|-------------------------------------------------------------------------------------------|
| H317   | May cause an allergic skin reaction.                                                      |
| H361d  | Suspected of damaging the unborn child.                                                   |
| H400   | Very toxic to aquatic life.                                                               |
| H410   | Very toxic to aquatic life with long lasting effects.                                     |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

Precautionary Statement:

|      |                                                                       |
|------|-----------------------------------------------------------------------|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children.                                        |
| P103 | Read carefully and follow all instructions.                           |

Precautionary Statements (Prevention):

|      |                                                                                    |
|------|------------------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                            |
| P202 | Do not handle until all safety precautions have been read and understood.          |
| P261 | Avoid breathing mist or vapour or spray.                                           |
| P272 | Contaminated work clothing should not be allowed out of the workplace.             |
| P280 | Wear protective gloves, protective clothing and eye protection or face protection. |

Precautionary Statements (Response):

|             |                                                           |
|-------------|-----------------------------------------------------------|
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water.           |
| P308 + P313 | IF exposed or concerned: Get medical attention.           |
| P333 + P313 | If skin irritation or rash occurs: Get medical attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse.  |
| P391        | Collect spillage.                                         |

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#### Precautionary Statements (Storage):

P405 Store locked up.

#### Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

#### Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3 :1)

Hazard determining component(s) for labelling: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine, 1,2-benzisothiazol-3(2H)-one

### 2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

#### Chemical nature

crop protection product, herbicide, suspension concentrate (SC)

#### Hazardous ingredients (GHS)

|                                                                 |                        |
|-----------------------------------------------------------------|------------------------|
| pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine |                        |
| Content (W/W): 28.83 %                                          | Repr. 2 (unborn child) |
| CAS Number: 40487-42-1                                          | Aquatic Acute 1        |
| EC-Number: 254-938-2                                            | Aquatic Chronic 1      |
| INDEX-Number: 609-042-00-X                                      | M-factor acute: 100    |
|                                                                 | M-factor chronic: 10   |
|                                                                 | H361d, H400, H410      |

picolinafen (ISO); 2-Pyridinecarboxamide, N-(4-fluorophenyl)-6-[3-(trifluoromethyl)phenoxy]-

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Content (W/W): 1.44 %  
CAS Number: 137641-05-5

STOT RE (Thyroid gland, Blood) 2  
Aquatic Acute 1  
Aquatic Chronic 1  
M-factor acute: 1000  
M-factor chronic: 1000  
H373, H400, H410

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts

Content (W/W): < 5 %  
CAS Number: 68425-94-5

Eye Dam./Irrit. 2  
Aquatic Chronic 3  
H319, H412

1,2-benzisothiazol-3(2H)-one

Content (W/W): < 0.1 %  
CAS Number: 2634-33-5  
EC-Number: 220-120-9  
REACH registration number: 01-2120761540-60  
INDEX-Number: 613-088-00-6

Acute Tox. 2 (Inhalation - dust)  
Acute Tox. 4 (oral)  
Skin Irrit. 2  
Eye Dam. 1  
Skin Sens. 1A  
Aquatic Acute 1  
Aquatic Chronic 1  
M-factor acute: 1  
M-factor chronic: 1  
H318, H315, H330, H302, H317, H400, H410

Specific concentration limit:

Skin Sens. 1A: >= 0.036 %

bronopol (INN)

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|                                             |                                                                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Content (W/W): < 0.01 %                     | Acute Tox. 3 (Inhalation - dust)                                                                                                  |
| CAS Number: 52-51-7                         | Acute Tox. 3 (oral)                                                                                                               |
| EC-Number: 200-143-0                        | Acute Tox. 4 (dermal)                                                                                                             |
| REACH registration number: 01-2119980938-15 | Skin Irrit. 2                                                                                                                     |
| INDEX-Number: 603-085-00-8                  | Eye Dam. 1                                                                                                                        |
|                                             | STOT SE 3 (irr. to respiratory syst.)                                                                                             |
|                                             | Aquatic Acute 1                                                                                                                   |
|                                             | Aquatic Chronic 1                                                                                                                 |
|                                             | M-factor acute: 10                                                                                                                |
|                                             | M-factor chronic: 10                                                                                                              |
|                                             | H318, H315, H312, H335, H301 + H331, H400, H410                                                                                   |
|                                             | <u>Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008</u> |
|                                             | Aquatic Chronic 1                                                                                                                 |
|                                             | Aquatic Acute 1                                                                                                                   |
|                                             | M-factor acute: 100                                                                                                               |
|                                             | M-factor chronic: 10                                                                                                              |

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H - isothiazol-3- one [EC no. 220-239-6] (3 :1)

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Content (W/W): < 0.0015 %                   | Acute Tox. 3 (oral)                       |
| CAS Number: 55965-84-9                      | Acute Tox. 2 (Inhalation - mist)          |
| REACH registration number: 01-2120764691-48 | Acute Tox. 2 (dermal)                     |
| INDEX-Number: 613-167-00-5                  | Skin Corr. 1C                             |
|                                             | Eye Dam. 1                                |
|                                             | Skin Sens. 1A                             |
|                                             | Aquatic Acute 1                           |
|                                             | Aquatic Chronic 1                         |
|                                             | M-factor acute: 100                       |
|                                             | M-factor chronic: 100                     |
|                                             | H314, H301, H317, H310 + H330, H400, H410 |
|                                             | EUH071                                    |
|                                             | <u>Specific concentration limit:</u>      |
|                                             | Skin Sens. 1A: >= 0.0015 %                |
|                                             | Eye Dam. 1: >= 0.6 %                      |
|                                             | Skin Irrit. 2: 0.06 - < 0.6 %             |
|                                             | Eye Irrit. 2: 0.06 - < 0.6 %              |
|                                             | Skin Corr. 1C: >= 0.6 %                   |

Silica gel, precipitated, crystalline free

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Content (W/W): < 5 %  
CAS Number: 112926-00-8  
REACH registration number: 01-2119379499-16

Propane-1,2-diol

Content (W/W): < 10 %  
CAS Number: 57-55-6  
EC-Number: 200-338-0  
REACH registration number: 01-2119456809-23

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

Show container, label and/or safety data sheet to physician.

If inhaled:

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

On skin contact:

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.

On ingestion:

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

### 4.2. 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 labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

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

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

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

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

Endangering substances: carbon monoxide, Carbon dioxide, hydrogen fluoride, nitrogen oxides, sulfur oxides, silica compounds, halogenated compounds

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

### 5.3. Advice for fire-fighters

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.

## SECTION 6: Accidental Release Measures

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

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

### 6.2. Environmental precautions

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

### 6.3. 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 labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

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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.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

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

Segregate from foods and animal feeds.

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

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

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

# SECTION 8: Exposure Controls/Personal Protection

## 8.1. Control parameters

### Components with occupational exposure limits

57-55-6: Propane-1,2-diol

TWA value 474 mg/m<sup>3</sup> ; 150 ppm (WEL/EH 40 (UK)), Total vapour and particulates

TWA value 10 mg/m<sup>3</sup> (WEL/EH 40 (UK)), Particulate

112926-00-8: Silica gel, precipitated, crystalline free

TWA value 6 mg/m<sup>3</sup> (WEL/EH 40 (UK)), Inhalable dust

TWA value 2.4 mg/m<sup>3</sup> (WEL/EH 40 (UK)), Respirable dust

TWA value 10 mg/m<sup>3</sup> (WEL/EH 40 (UK)), Inhalable dust

TWA value 4 mg/m<sup>3</sup> (WEL/EH 40 (UK)), Respirable dust

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom). For normal use and handling refer to the product label/leaflet.

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

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

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 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 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.

## SECTION 9: Physical and Chemical Properties

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

|                  |                                                                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form:            | liquid                                                                                                                                                                                                   |
| Colour:          | orange                                                                                                                                                                                                   |
| Odour:           | faint odour, nutty, aromatic                                                                                                                                                                             |
| Odour threshold: | Not determined due to potential health hazard by inhalation.                                                                                                                                             |
| pH value:        | approx. 6.5 - 8.5<br>(20 °C)<br>(measured with the undiluted substance), The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. |
| Freezing point:  | < 0 °C                                                                                                                                                                                                   |
| Boiling point:   | approx. 100 °C<br>Information applies to the solvent.                                                                                                                                                    |
| Flash point:     | (ISO 2719)<br>No flash point - Measurement made up to the boiling point.                                                                                                                                 |
| Flammability:    | not flammable                                                                                                                                                                                            |

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|                                                     |                                                                                                                                                                                                        |                                       |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Lower explosion limit:                              | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |                                       |
| Upper explosion limit:                              | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |                                       |
| Ignition temperature:                               | 380 °C                                                                                                                                                                                                 | (DIN EN 14522)                        |
| Vapour pressure:                                    | approx. 23 hPa<br>(20 °C)                                                                                                                                                                              |                                       |
| Density:                                            | Information applies to the solvent.<br>approx. 1.1 g/cm <sup>3</sup><br>(20 °C)                                                                                                                        | (OECD Guideline 109)                  |
|                                                     | The product has not been tested.<br>The statement has been derived from substances/products of a similar structure or composition.                                                                     |                                       |
| Relative vapour density (air):                      | not determined                                                                                                                                                                                         |                                       |
| Solubility in water:                                | dispersible, The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.                                                           |                                       |
| Partitioning coefficient n-octanol/water (log Kow): | not applicable for mixtures                                                                                                                                                                            |                                       |
| Thermal decomposition:                              | 255 °C, 630 kJ/kg,<br>(onset temperature)<br>Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.                                                            |                                       |
| Viscosity, dynamic:                                 | approx. 134 mPa.s<br>(20 °C)                                                                                                                                                                           | (OECD Guideline 114)                  |
|                                                     | The product has not been tested.<br>The statement has been derived from substances/products of a similar structure or composition.                                                                     |                                       |
| Viscosity, kinematic:                               | 122 mm <sup>2</sup> /s                                                                                                                                                                                 | (calculated (from dynamic viscosity)) |
| Explosion hazard:                                   | not explosive                                                                                                                                                                                          |                                       |
| Fire promoting properties:                          | Based on its structural properties the product is not classified as oxidizing.                                                                                                                         |                                       |

## 9.2. Other information

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SADT: > 75 °C

Grain size distribution: The substance / product is marketed or used in a non solid or granular form.

Other Information:

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

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

### 10.5. Incompatible materials

Substances to avoid:

strong oxidizing agents, strong bases, strong acids

### 10.6. Hazardous decomposition products

Hazardous decomposition products:

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

## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

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

LC50 rat (by inhalation): > 3.75 mg/l 4 h (OECD Guideline 403)

No mortality was observed. Highest concentration technically achievable. An aerosol was tested.

LD50 rat (dermal): > 4,000 mg/kg (OECD Guideline 402)

No mortality was observed.

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### Irritation

Assessment of irritating effects:

Not irritating to eyes and skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (Guideline 92/69/EEC, B.4)

Serious eye damage/irritation

rabbit: non-irritant (Guideline 92/69/EEC, B.5)

### Respiratory/Skin sensitization

Assessment of sensitization:

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

*Information on: 1,2-benzisothiazol-3(2H)-one*

*Experimental/calculated data:*

*Guinea pig maximization test guinea pig: skin sensitizing (OECD Guideline 406)*

### Germ cell mutagenicity

Assessment of mutagenicity:

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

*Information on: bronopol (INN)*

*Assessment of mutagenicity:*

*The substance was not mutagenic in bacteria. The substance was mutagenic in various cell culture test systems; however, these results could not be confirmed in tests with mammals.*

### Carcinogenicity

Assessment of carcinogenicity:

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

*Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine*

*Assessment of carcinogenicity:*

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*In long-term studies in rats the substance induced thyroid tumors. The effect is caused by an animal specific mechanism that has no human counter part. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.*

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#### 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: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylydine*

*Assessment of teratogenicity:*

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

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#### 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: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylydine*

*Assessment of repeated dose toxicity:*

*No substance-specific organotoxicity was observed after repeated administration to animals. Adaptive effects were observed after repeated exposure in animal studies.*

*Information on: picolinafen (ISO); 2-Pyridinecarboxamide, N-(4-fluorophenyl)-6-[3-(trifluoromethyl)phenoxy]-*

*Assessment of repeated dose toxicity:*

*Repeated exposure may affect certain organs. Thyroid gland Damages blood cells.*

*Information on: Silica gel, precipitated, crystalline free*

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*Assessment of repeated dose toxicity:*

| *The substance may cause damage to the lung after repeated inhalation of high doses.*

| *Information on: reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3 :1)*

| *Assessment of repeated dose toxicity:*

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

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Aspiration hazard

| not applicable

Other relevant toxicity information

Misuse can be harmful to health.

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## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

Very toxic 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.

Toxicity to fish:

LC50 (96 h) 4.08 mg/l, *Oncorhynchus mykiss* (OPP 72-1 (EPA-Guideline), Flow through.)

Aquatic invertebrates:

EC50 (48 h) 9.81 mg/l, *Daphnia magna* (OPP 72-2 (EPA-guideline), static)

Aquatic plants:

EC50 (72 h) 0.0299 mg/l (growth rate), *Selenastrum capricornutum* (OECD Guideline 201, static)

No observed effect concentration (72 h) 0.0017 mg/l, *Selenastrum capricornutum*

Chronic toxicity to fish:

No observed effect concentration (28 d) 0.486 mg/l, *Oncorhynchus mykiss*

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 0.00881 mg/l, *Daphnia magna*

### 12.2. Persistence and degradability

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

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

*Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine*

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

*Not readily biodegradable (by OECD criteria).*

*Information on: picolinafen (ISO); 2-Pyridinecarboxamide, N-(4-fluorophenyl)-6-[3-(trifluoromethyl)phenoxy]-*

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

*Not readily biodegradable (by OECD criteria).*

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

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

*Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine*

*Bioaccumulation potential:*

*Bioconcentration factor (BCF): 3,300*

*Based on a weight of evidence, the compound will not bioaccumulate.*

*Information on: picolinafen (ISO); 2-Pyridinecarboxamide, N-(4-fluorophenyl)-6-[3-(trifluoromethyl)phenoxy]-*

*Bioaccumulation potential:*

*Bioconcentration factor (BCF): 617 (28 d), Lepomis macrochirus*

*Accumulation in organisms is not to be expected.*

### 12.4. Mobility in soil

Assessment transport between environmental compartments:

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

*Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine*

*Assessment transport between environmental compartments:*

*Volatility: The substance will slowly evaporate into the atmosphere from the water surface.*

*Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

*Information on: picolinafen (ISO); 2-Pyridinecarboxamide, N-(4-fluorophenyl)-6-[3-(trifluoromethyl)phenoxy]-*

*Assessment transport between environmental compartments:*

*Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

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## 12.5. 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.

## 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## 12.7. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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# SECTION 13: Disposal Considerations

## 13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

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

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# SECTION 14: Transport Information

## Land transport

ADR

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PENDIMETHALIN, PICOLINAFEN)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

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#### RID

UN number or ID number: UN3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PENDIMETHALIN, PICOLINAFEN)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

#### Inland waterway transport

##### ADN

UN number or ID number: UN3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PENDIMETHALIN, PICOLINAFEN)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

#### Transport in inland waterway vessel

Not evaluated

#### Sea transport

##### IMDG

UN number or ID number: UN 3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PENDIMETHALIN, PICOLINAFEN)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Marine pollutant: YES  
Special precautions for user:

#### Air transport

##### IATA/ICAO

UN number or ID number: UN 3082

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UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains PENDIMETHALIN, PICOLINAFEN)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

#### **Further 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)

This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

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## SECTION 15: Regulatory Information

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

#### Prohibitions, Restrictions and Authorizations

UK REACH SI, Annex XVII, Marketing and Use Restrictions  
Number on List: 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
List entry in regulation: E1  
Classification applies for standard conditions of temperature and pressure.

This product is classified under the European CLP Regulation.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

## SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| Skin Sens.      | Skin sensitization                                                                        |
| Repr.           | Reproductive toxicity                                                                     |
| Aquatic Acute   | Hazardous to the aquatic environment - acute                                              |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic                                            |
| STOT RE         | Specific target organ toxicity — repeated exposure                                        |
| Eye Dam./Irrit. | Serious eye damage/eye irritation                                                         |
| Acute Tox.      | Acute toxicity                                                                            |
| Skin Irrit.     | Skin irritation                                                                           |
| Eye Dam.        | Serious eye damage                                                                        |
| STOT SE         | Specific target organ toxicity — single exposure                                          |
| Skin Corr.      | Skin corrosion                                                                            |
| Eye Irrit.      | Eye irritation                                                                            |
| H317            | May cause an allergic skin reaction.                                                      |
| H361d           | Suspected of damaging the unborn child.                                                   |
| H400            | Very toxic to aquatic life.                                                               |
| H410            | Very toxic to aquatic life with long lasting effects.                                     |
| EUH401          | To avoid risks to human health and the environment, comply with the instructions for use. |
| H373            | May cause damage to organs (Thyroid gland, Blood) through prolonged                       |

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|             |                                                    |
|-------------|----------------------------------------------------|
|             | or repeated exposure.                              |
| H319        | Causes serious eye irritation.                     |
| H412        | Harmful to aquatic life with long lasting effects. |
| H318        | Causes serious eye damage.                         |
| H315        | Causes skin irritation.                            |
| H330        | Fatal if inhaled.                                  |
| H302        | Harmful if swallowed.                              |
| H312        | Harmful in contact with skin.                      |
| H335        | May cause respiratory irritation.                  |
| H301 + H331 | Toxic if swallowed or if inhaled.                  |
| H314        | Causes severe skin burns and eye damage.           |
| H301        | Toxic if swallowed.                                |
| H310 + H330 | Fatal in contact with skin or if inhaled.          |
| EUH071      | Corrosive to the respiratory tract.                |

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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.

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