



Triclopyr 10% ST

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 14/07/2011

Revision date: 03/04/2013

Supersedes: 14/09/2012

Version: 5.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Triclopyr 10% ST
Product code : CA701222
Synonyms : Triclopyr 10% ST

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Agriculture.
Pesticide
Use of the substance/mixture : Plant growth regulation.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Rue de Renory, 26/1
B-4102 Ougrée - Belgium
T +32 (0)4 385 97 11 - F +32 (0)4 385 97 49
info@agriphar.com - <http://www.agriphar.com>

1.4. Emergency telephone number

Emergency number : +32 (0)4 385 97 11 (8h - 16h35)
112 (European Emergency Number)

| Country | Organisation/Company | Address | Emergency number |
|-----------|---|---|------------------|
| BELGIUM | Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn B -1120Brussels | +32 70 245 245 |
| Worldwide | WHO | http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/index.html | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

R52/53
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous ingredients : Triclopyr acid
Precautionary statements (CLP) : P102 - Keep out of reach of children
P270 - Do not eat, drink or smoke when using this product

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|------|--------------------|---|--|
|------|--------------------|---|--|

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| Triclopyr acid | (CAS No)55335-06-3 (EC no)265-024-8 | 5 - 10 | Xn; R22 Xi; R36 Xi; R43 R52/53 |
|----------------|--|--------|--|
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| Triclopyr acid | (CAS No)55335-06-3 (EC no)265-024-8 | 5 - 10 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry extinguishing powder. Carbon dioxide (CO₂). Water fog.
- Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Non-flammable.
- Reactivity : When exposed to heat, may decompose liberating hazardous gases.

5.3. Advice for firefighters

- Precautionary measures fire : No naked lights. No smoking.
- Firefighting instructions : Evacuate and limit access. Use water spray jet to protect personnel and to cool endangered containers.
- Protection during firefighting : Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
- Other information : Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : When leaks or spills occur, only properly protected personnel should remain in the area.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
- Emergency procedures : Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert. Eliminate every possible source of ignition.

6.1.2. For emergency responders

- Protective equipment : Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Prevent spreading in sewers. Impound and recover large spill by mixing it with inert granular solids. |
| Methods for cleaning up | : Collect spills and put it into appropriated container. |
| Other information | : Special danger of slipping by leaking/spilling product. |

6.4. Reference to other sections

Exposure controls/personal protection. Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|--|
| Precautions for safe handling | : Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow to enter into surface water or drains. |
| Handling temperature | : at room temperature |
| Hygiene measures | : Do no eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|--|
| Technical measures | : Ground well. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. |
| Storage conditions | : Protect against direct sunlight. |
| Incompatible products | : Strong acid. Strong bases. Oxidizing agents, strong. |
| Maximum storage period | : 2 year(s) |
| Storage area | : Keep container tightly closed in a cool, well-ventilated place. Provide for retaining containers, eg. floor pan without outflow. |
| Packaging materials | : Keep only in the original container. Keep locked up. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Gloves. Gas mask. Safety glasses.



| | |
|---------------------------------|---|
| Hand protection | : Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. |
| Eye protection | : Face shield. Chemical goggles or safety glasses. |
| Skin and body protection | : Skin protection appropriate to the conditions of use should be provided. |
| Respiratory protection | : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. |
| Environmental exposure controls | : Notify authorities if product enters sewers or public waters. |
| Other information | : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Solid |
| Appearance | : Tablets. |
| Colour | : light grey. brown. |
| Odour | : Chemical odor. |
| Odour threshold | : No data available |
| pH | : 6,9 (1% ; CIPAC MT 75) |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Self ignition temperature | : 228 °C Regulation (EC) No. 440/2008, Annex, A.16 |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable., Regulation (EC) No. 440/2008, Annex, A.10 |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1,912 OECD 109 |
| Solubility | : No data available |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : not explosive. Regulation (EC) No. 440/2008, Annex, A.14. |
| Oxidising properties | : not oxidizing. Regulation (EC) No. 440/2008, Annex, A.17. |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

When exposed to heat, may decompose liberating hazardous gases.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions. Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Protect against direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong acid. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| Triclopyr 10% ST | |
|-----------------------------|---------------|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| Triclopyr acid (55335-06-3) | |
| LD50 oral rat | 630 mg/kg |
| LD50 dermal rat | 2000 mg/kg |
| ATE (oral) | 500,000 mg/kg |

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| | |
|--|--|
| Skin corrosion/irritation | : Not classified pH: 6,9 (1% ; CIPAC MT 75) |
| Serious eye damage/irritation | : Not classified pH: 6,9 (1% ; CIPAC MT 75) |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| Triclopyr 10% ST | |
|------------------|--|
| LC50 fishes 1 | > 100 mg/l (96h <i>Oncorhynchus mykiss</i>) |
| EC50 Daphnia 1 | > 100 mg/l (48h <i>Daphnia magna</i>) |
| ErC50 (algae) | > 220 mg/l (72h <i>Selenastrum capricornutum</i>) |

| Triclopyr acid (55335-06-3) | |
|-----------------------------|------------------|
| LC50 fishes 1 | 117 mg/l (96h) |
| EC50 Daphnia 1 | 132,9 mg/l (48h) |
| ErC50 (algae) | 75,8 mg/l (72h) |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| Triclopyr acid (55335-06-3) | |
|-----------------------------|--------------|
| BCF fish 1 | 0,77 |
| Log Pow | -0,45 (pH=7) |

12.4. Mobility in soil

| Triclopyr acid (55335-06-3) | |
|-----------------------------|------------------|
| Surface tension | 71,6 mN/m (21°C) |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|------------------------------|---|
| Regional legislation (waste) | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of this material and its container to hazardous or special waste collection point. |
| Additional information | : Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads). Notify authorities if product enters sewers or public waters. |

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

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14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

Classification according to directives 67/548/EEC and 1999/45/EC. Classification according to Regulation (EC) No. 1272/2008 [CLP].

Full text of R-, H- and EUH-phrases::

| | |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, category 1 |
| H302 | Harmful if swallowed |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H412 | Harmful to aquatic life with long lasting effects |
| R22 | Harmful if swallowed |
| R36 | Irritating to eyes |
| R43 | May cause sensitisation by skin contact |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| Xi | Irritant |
| Xn | Harmful |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product