

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Triclopyr 480g/L EC
Substance: Emulsifiable concentrate of Triclopyr
Chemical name of active ingredient: IUPAC Name:
3,5,6-trichloro-2-pyridyloxyacetic acid
CA Name:
[(3,5,6-trichloro-2-pyridyl)oxy]acetic acid
Product Use: Agricultural herbicide
Manufacturer: Spinochem Tech Co.,Ltd
Address: No.2278,Zhaochong Rd,Shanghai,China
Emergency telephone No.: + 86 21 64238765

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 [CLP]Show CLP information + DPD classification in section 2.1

Skin Irrit. 2 H315
Eye Dam. 1 H318
Asp. Tox. 1 H304
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

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

Xi; R36/38
N; R50/53
Xn; R65

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Hazard pictograms:



Signal word: Danger

Hazardous ingredients: Triclopyr butoxy ethyl ester, Organic solvent, anionic surfactants

Hazard statements: H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements: P280 - Wear eye protection, protective clothing, protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P331 - Do NOT induce vomiting

P501 - Dispose of contents/container to National regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS No. | Content |
|------------|----------------|----------|
| Triclopyr | 55335-06-3 | 480g/L |
| Others | Not applicable | Up to 1L |

4. FIRST AID MEASURES

General advice

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Skin contact: Wash off in flowing water or shower

Eye contact: Flush eyes with plenty of water.

Ingestion: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. The decision of whether to induce vomiting or not should be made

by an attending physician.

NOTE TO PHYSICIAN:

If lavage is performed, endotracheal and/or oesophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE-FIGHTING MEASURES

Flash point: 72 °C. Non-flammable. Combustible

Fire & Explosion Hazards: Combustible. Toxic, irritating vapors may be produced if product is involved in fire.

Hazardous Combustion Products; Nitrogen oxides. Hydrogen chloride. Phosgene. Dependent on the intensity of the fire.

Extinguishing Media: Water fog, foam, CO₂, and dry chemical.

Fire Fighting Protective Equipment: Use positive pressure self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Method and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

HANDLING:

Keep out of reach of children. Do not use near heat or open flame. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin and clothing. Avoid breathing mists and vapors. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. For handling relative to end-use of this product, read the product label for further information concerning the use of personal protective equipment (PPE) under the Worker Protection Standard of 1993.8.

STORAGE:

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Components with workplace control parameters.

Exposure limits

Not available.

Acceptable Daily Intake (ADI):

(EC) 0.03 mg/kg b.w. [2006]; (EPA) RfD 0.05 mg/kg b.w., provisional RfD for trichloropyridinol metabolite 0.03 mg/kg b.w. [1997].

No-observable-effect-level (NOEL):

(2 y) for rats 3.0 mg/kg b.w. daily, for mice 35.7 mg/kg b.w. daily.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.

Personal protection equipment

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

- Skin Protection:** The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when handling this product.
- Body protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
- Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99(US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

User safety recommendations:

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------|
| Appearance: | Light yellow Liquid |
| pH range | 5-8 |
| Emulsion stability and re-emulsification | Stable |
| Persistent foam, ml | ≤60 |

Stability at 0°C

Stable

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available.

Conditions to avoid

High temperature, direct sunlight, etc.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Other decomposition products - No data available.

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

| | |
|------------------------|--|
| Acute Oral | Rats: LD ₅₀ for male rats >2000mg/kg |
| Inhalation | LC ₅₀ (4 h) for rats >2.0mg/L. |
| Skin and Eye | Rats: Acute percutaneous LD ₅₀ >2000mg/kg Mild eye irritant; non-irritating to skin (rabbits). |
| Skin sensitization | Not a skin sensitizer in guinea pigs. |
| Mutagenic effects | No data available. |
| Reproductive effects | No data available. |
| Teratogenic effects | No data available. |
| Carcinogenic effects | Not a potential carcinoge |
| STOT-single exposure | No data available. |
| STOT-repeated exposure | No data available. |
| Aspiration hazard | No data available. |

12. ECOLOGICAL INFORMATION

Eco-toxicity(ePM)

| | | |
|---------|---|--|
| Bird | Mallard Ducks | Acute oral LD ₅₀ >2000mg/kg |
| | Bobwhite Quail | Acute oral LD ₅₀ >2000mg/kg |
| Fish | Rainbow trout: | LC ₅₀ (96-hour) >100mg/L |
| | Bluegill sunfish: | LC ₅₀ (96-hour) >100mg/L |
| Daphnia | Daphnia: | EC ₅₀ (48 h) >100mg/l. |
| Algae | Selenastrum capricornutum: | EC ₅₀ (72 h) 45mg/L. |
| Bees | LD ₅₀ for honeybees (oral) >100µg/bee; (contact) >100µg/bee. | |
| Worms | LC ₅₀ (14 d) for earthworms >1000mg/kg. | |

Persistence and degradability

In soil, fairly rapid degradation by microbial activity, DT50 (ave.) 46 d, depending on soil and climatic conditions. The major degradation product is 3,5,6-trichloro-2-pyridinol (which has a soil DT50 of 30–90 d), with a smaller amount of 3,5,6-trichloro-2-methoxypyridine.

Bioaccumulative potential

No data available.

Mobility in soil

Mobile

Result of PBT and vPvB assessment

No data available.

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty

containers and product should not be burnt.

Dispose of washings, contaminated materials, used absorbents and other waste materials as directed by local regulations

14. TRANSPORT INFORMATION

UN number

ADR/RID: 3082

IMDG: 3082

IATA: 3082

UN proper shipping name

ADR/RID: Environmentally hazardous substance, liquid, N.O.S

IMDG: Environmentally hazardous substance, liquid, N.O.S

IATA: Environmentally hazardous substance, liquid, N.O.S

Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

Packaging group

ADR/RID: III

IMDG: III

IATA: III

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

Special precautions for user

No data available.

15. REGULATORY INFORMATION

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

No data available

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to

appropriate safety precautions. It does not represent any guarantee of the properties of the product. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

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