

Version: 1.0 Issue date: Oct. 10, 2022

MATERIAL SAFETY DATA SHEET OF

CHLORFENAPYR 98% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd.

Street address: No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

FAX: +86 21 63065878

TEL: +86 21 63065878

Product name: Chlorfenapyr 98% TC

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Technical material (TC)

Active Ingredients: Chlorfenapyr

Other ingredients determined not to be hazardous

Ingredient	CAS NO.	Proportion
Chlorfenapyr	122453 - 73 - 0	98%
other ingredients	Not available	Balance

3. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 3), H331

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



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Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements none

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Antidote:

No specific antidote. Treatment symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media

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Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Hydrogen bromide gas, Hydrogen chloride gas, Hydrogen fluoride

Nature of decomposition products not known.

Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas, Hydrogen bromide gas, Hydrogen fluoride

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. 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.

Methods and materials for containment and cleaning up

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

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling

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the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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 (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Powder
Appearance	: White
Odour	: NA
Explosion Properties	: Not explosive
Solubility	: Water 0.14 mg/l (pH 7).

10. STABILITY AND REACTIVITY

Reactivity

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No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Acids, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x),

Hydrogen chloride gas, Hydrogen bromide gas, Hydrogen fluoride

Other decomposition products - No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity LD50 for male rats 441, female rats 1152, male mice 45, female mice 78 mg tech./kg (EPA Fact Sheet).

Acute skin and eye toxicity Acute percutaneous LD50 for rabbits >2000 mg/kg.

Acute Irritation Moderate eye irritant; non-irritating to skin (rabbits).

Acute Inhalation LC50 for rats 1.9 mg tech./l air.

Chronic toxicity:

NOEL Chronic oral toxicity and carcinogenicity NOAEL (80 w) for male mice 2.8 mg/kg daily (20 ppm); dietary neurotoxicity NOAEL (52 w) for rats 2.6 mg/kg daily (60 ppm) (EPA Fact Sheet).

Other

Non-mutagenic in the Ames, CHO/HGPRT, mouse micronucleus and unscheduled DNA synthesis tests.

12. ECOLOGICAL INFORMATION

Birds Acute oral LD50 for mallard ducks 10, bobwhite quail 34 mg/kg. LC50 (8 d) for mallard ducks 9.4, bobwhite quail 132 ppm.

Fish LC50 (48 h) for carp 500 µg/l. LC50 (96 h) for rainbow trout 7.44, bluegill sunfish 11.6 µg/l.

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Daphnia LC50 (96 h) 6.11 μ g/l.

Algae EC50 for *Selenastrum capricornutum* 132 ppb.

Bees LD50 0.2 μ g/bee.

Worms NOEC (14 d) for *Eisenia foetida* 8.4 mg/kg.

13. DISPOSAL CONSIDERATION

Product Disposal Dispose of product only by using according to the label, or at an approved landfill.

Container Disposal Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. TRANSPORT INFORMATION

ADR/RID

U.N. Number 2811

UN proper shipping name TOXIC SOLID, ORGANIC, N.O.S. (Chlorfenapyr)

UN classification: 6.1

Packing Group II

IMDG

U.N. Number 2811

UN proper shipping name TOXIC SOLID, ORGANIC, N.O.S. (Chlorfenapyr)

UN classification: 6.1

Packing Group II

IMO Marine pollutant: No

IATA

U.N. Number 2811

UN proper shipping name TOXIC SOLID, ORGANIC, N.O.S. (Chlorfenapyr)

UN classification: 6.1

Packing Group II

15. REGULATORY INFORMATION

Follow all local, national, international degree, regulations and laws.



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16. OTHER INFORMATION

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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --