

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product Name:	Chlorfenapyr 240G/L SC
Other name:	/
Recommended use of the chemical and restrictions on use	Insecticide
Supplier Name	Shandong Weifang Rainbow Chemical Co., Ltd.
Supplier Address:	Binhai Economic Development Area, Weifang, Shandong 262737, China.
Supplier Phone:	+86-531-88875222, 88875231
Supplier Fax:	+86-531-88875232, 88875224
Emergency phone number:	+86-531-88875222

2. HAZARDS IDENTIFICATION

HAZARD STATEMENTS

May be harmful if swallowed

May be harmful in contact with skin

Harmful if inhaled

Very toxic to aquatic life.

PRECAUTIONARY STATEMENTS

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

Use only outdoors or with adequate ventilation.

Avoid release to the environment.

Get medical help.

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration(w/v)
Chlorfenapyr	122453-73-0	240G/L
Other ingredients	/	Up to 1L

4. FIRST - AID MEASURES

Description of necessary first aid measures

If swallowed: Call a doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a doctor. Do not give anything to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a doctor for further treatment advice.

If in eyes: Immediately hold eyelids open and flush with a steady, gentle stream of water for 15-20 minutes. Call a doctor for treatment advice.

Note to physician: Treat symptomatically. No specific antidote.

Note: Have the product container or label with you when calling a doctor or going for treatment.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Water spray, carbon dioxide, foam, dry powder. Unsuitable extinguishing media for safety reasons: water jet.

SAFETY DATA SHEET

Special hazards arising from the chemical:

Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, organochloric compounds.

Special protective actions for fire-fighters:

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/ground water. Contain contaminated water/firefighting water.

Methods and materials for containment and cleaning up:

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes and skin, and inhalation of spray and vapour. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the pesticide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing.

Conditions for safe storage, including any incompatibilities:

Keep under lock and key and out of reach of unauthorized persons, children and animals. Store in its original labeled container in isolated, dry, cool and well-ventilated area.

Not to be stored close to foodstuffs, animal feeds and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

Personal protective equipment:

Respiratory protection: If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Eye protection: Wear tightly fitting safety goggles with side-shields or face shield.

Skin and body protection: Wear protective clothing including chemical impermeable gloves, long sleeved shirt, long pants, shoes and socks.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.): Off-white liquid

SAFETY DATA SHEET

Odor:	Characteristic odour
pH:	6.9
Flash point:	105°C
Relative density:	1.11g/ml at 20°C
Solubility(ies):	No data available
Viscosity:	338mpa·s

10. STABILITY AND REACTIVITY

Stability:

Stable. Avoid heat and sunlight.

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents.

Hazardous decomposition products:

Including oxides of carbon and nitrogen, HCL, HF, HBr.

Hazardous polymerization:

Does not occur.

11. TOXICOLOGICAL INFORMATION

Acute health effects:

Skin irritation, Rabbit	Non-irritant
Eye irritation , Rabbit	Non-irritant
Skin sensitization, Guinea pigs	Not a skin sensitizer

Numerical measures of toxicity:

Acute oral LD50:	2000-5000mg/kg
Acute dermal LD50:	2000-5000mg/kg
Acute inhalation LC50:	>4.6 mg/L

Chronic health effects

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Effects on fresh water algae:

Acute E _r C ₅₀	5.23 mg/L, Pseudokirchneriella subcapitata ,72 hour
Acute E _y C ₅₀	3.06 mg/L, Pseudokirchneriella subcapitata ,72 hour

Effects on aquatic invertebrates:

Acute EC ₅₀	32.74 µg/L, Daphnia magna, 24h
Acute EC ₅₀	18.17 µg/L, Daphnia magna ,48 h

Effect on fish:

Acute LC ₅₀	1.05 mg/l, Brachydanio rerio (Zebra fish), 96 hours
Acute LC ₅₀	1.68 mg/l, Brachydanio rerio (Zebra fish), 48 hours
Acute LC ₅₀	1.13 mg/l, Brachydanio rerio (Zebra fish), 72 hours

Effect on Earthworm:

Acute LC ₅₀	45.37 mg/kg (dry weight), Eisenia foetida, 14 days
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Effect on Bee:

Acute oral LD ₅₀	4.52 ug/bee, Honey Bees - Apis mellifera, 48 hours
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SAFETY DATA SHEET

Effect on birds:

Acute oral LD₅₀ 80.6 mg/kg, Japanese quail - Coturnix japonica

Effect on soil microorganisms:

Chlorfenapyr 240 g/L SC do not have long-term influence on nitrate nitrogen transformation in soils, in turn on soil microbial activity, and do not have long-term influence on carbon transformation in soils, in turn on soil microbial activity.

13. DISPOSAL CONSIDERATIONS

Safe handling of waste residues and disposal methods:

Product:

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging:

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill.

14. TRANSPORT INFORMATION

UN number:

3082

UN proper shipping name:

Environmentally hazardous liquid substance, n.o.s.

Transport hazard class(es):

9

Packing group, if applicable:

III

Marine pollutant (Yes/No):

Yes

15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with local laws.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.