

# Spinochem Tech Co.Ltd

Add: No 2278,Zhaochong Rd, Shanghai, China.

## Material Safety Data Sheet

### Fluroxypyr 200g/l EC

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

fluroxypyr 200g/l EC

**Company Identification:**

Supplier: Spinchem Tech Co.,Ltd

Address: No 2278, Zhaochong Rd, Shanghai, China.

#### Section 2 - Composition, Information on Ingredients

Components	CAS Number	(Proportion, g/L)
Fluroxypyr	69377-81-7	200
Others	-----	up to 1L

#### Section 3 - Hazards Identification

**Emergency Overview:**

**Warning Statements:**

Keep out of reach of children. DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Avoid inhaling vapor or spray mist. Do not get in eyes or on clothing.

**Potential Health Effects:**

**Likely Routes of Exposure:** Inhalation, eye and skin contact.

**Eye Contact:** Causes irreversible eye damage. Vapors and mist can cause irritation.

**Skin Contact:**

This product is considered a minimal skin irritant and is not a dermal sensitizer. Overexposure by skin absorption may cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness, muscle spasms.

**Ingestion:** Harmful if swallowed. May cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness, muscle spasms.

**Inhalation:** Overexposure may cause upper respiratory tract irritation and symptoms similar to those from ingestion.

**Medical Conditions Aggravated by Exposure:**

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

**Potential Environmental Effects:** Toxic to aquatic invertebrates

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## Section 4 - First Aid Measures

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**If Inhaled:** Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

## Section 5 - Fire Fighting Measures

**Flash Point:** Will not burn until water component is driven off

**Auto ignition Temperature:** Not determined

**Flammability Limits:** Not flammable

**Extinguishing Media:** Recommended for large fires: foam or water spray. Recommended for small fires: dry chemical or carbon dioxide.

**Special Fire Fighting Procedures:** Firefighters should wear self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

**Unusual Fire and Explosion Hazards:** If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

**Hazardous Decomposition Materials (Under Fire Conditions):** Under fire conditions, may produce gases such as hydrogen chloride, nitrogen oxides, and carbon oxides.

## Section 6 - Accidental Release Measures

**Personal Precautions:** Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**Environmental Precautions:**

Prevent material from entering public sewer systems or any waterways.

Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate

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container for disposal.

## **Methods for Containment:**

Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

**Methods for Clean-Up and Disposal:** Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

## Section 7 - Handling and Storage

### **Handling:**

Do not get in eyes or on clothing. Avoid inhaling vapor or spray mist. Remove saturated clothing as soon as possible and shower. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately, if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protection Equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **Storage:**

Always store pesticides in a secured warehouse or storage building. Store at temperatures above 32 °F. If allowed to freeze, rewarm to 40 °F, remix thoroughly before using. This does not alter this product.

Containers should be opened in well-ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not store near open containers of fertilizer, seed or other pesticides. Do not contaminate water, food or feed by storage or disposal.

## Section 8 - Exposure Controls, Personal Protection

### **Engineering Controls:**

If this container is five gallons or more in capacity, do not open pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide containers are emptied, the probe must be rinsed before removal.

### **Personal Protective Equipment:**

**Eye/Face Protection:** To avoid contact with eyes, wear face shield, goggles or safety glasses with front, brow and temple protection. An emergency eyewash should be readily accessible to the work area.

**Skin Protection:** To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower should be readily accessible to the work area.

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**Respiratory Protection:** Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

**General Hygiene Considerations:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

## Section 9 - Physical and Chemical Properties

**Active ingredient:** Fluroxypyr

**Content:** 200g/L

**Chemical formula:** C<sub>7</sub>H<sub>5</sub>Cl<sub>2</sub>FN<sub>2</sub>O<sub>3</sub>

**Molecular weight:** 255.0 g/mol

**Solubility in water:** fully miscible in any proportion

**Appearance:** Light yellow liquid.

**Density:** 1.11g/ml

**pH:** 4.0-7.0

## Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30 °C.

**Incompatibilities:** No particular incompatibilities.

**Fire Decomposition:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

**Polymerization:** This product is unlikely to undergo polymerization processes

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## Section 11 - Toxicological Information

This section is intended for use by toxicologists and other health professionals. Data obtained on similar products and on components are summarized below.

### **Toxicity:**

**Oral:** LD<sub>50</sub>=2405mg/kg b.w. for both male and female rats.

**Skin and eye:** Dermal LD<sub>50</sub> for rats >2000 mg/kg/kg b.w.

No irritation to Skin and Mild irritant to eyes (rabbits).

Not a skin sensitizer (guinea pigs).

**Inhalation:** LC<sub>50</sub> (24 h) for rats >1.5 mg/l.

## Section 12 - Ecological Information

**Birds** Acute oral LD<sub>50</sub> for mallard ducks and bobwhite quail >2000 mg/kg.

**Fish** LC<sub>50</sub> (96 h) for rainbow trout and golden orfe >100 mg/l.

**Daphnia** LC<sub>50</sub> (48 h) >100 mg/l.

**Algae** EC<sub>50</sub> (96 h) for green algae >100 mg/l.

**Other aquatic spp.** EC<sub>50</sub> (14 d) for *Lemna gibba* 12.3 mg/l.

**Bees** Not toxic to bees. LD<sub>50</sub> (contact, 48 h) >25 g/bee.

## Section 13 - Disposal Considerations

Do not contaminate water, food or feed by storage or disposal.

### **Waste Disposal Method:**

Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, contain all spillage. Absorb and clean up all spilled material with granules or sand. Place in a closed, labeled container for proper disposal. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law and may contaminate ground water. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA regional office for guidance.

### **Container Handling and Disposal:**

Do not reuse empty container. Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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## Section 14 - Transport Information

**UN Number:** 3082

**UN proper shipping name:** Toxic to environment, liquid (fluroxypyr 200gl EC)

**Transport hazard class:** 9

**Packing group:** III

Do not load with explosives, nitromethane, oxidising agents, organic peroxides, corrosive acids, food or food packaging.

## Section 15 - Regulatory Information

### Risk Phases

R24/25 Toxic in contact with skin and if swallowed.

R26 Very toxic by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R41 Risk of serious damage to eyes.

R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety Phrases

S1/2 Keep locked up and out of reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S23 Do not breathe mists. S24/25 Avoid contact with skin and eyes.

S26 After contact with eyes, rinse immediately with water and seek medical advice.

S28 After contact with skin, wash immediately with soap and water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S38 In case of insufficient ventilation, wear suitable respiratory protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately

S42 During spraying, wear suitable respiratory equipment.

S46 If swallowed, seek medical advice immediately and show this container or label.

## Section 16 - Additional Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information

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contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.