

Material Safety Data Sheet

Oxyfluorfen 240g/L EC

1. Identification of The Product And The Manufacturer

Product Name: Oxyfluorfen 240g/L EC

Manufacture: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai 200433, China

Telephone: +86 21 5506 3225

Fax: +86 21 5506 3699

Website: www.tlongagro.com

2. Hazards Identification

Hazard Classification: Hazardous

Risk Phrases: R36/38 Irritating to eyes and skin.

R55 Harmful, may cause lung damage if swallowed.

Safety Phrases: –

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE

Chemical Identity of Pure Substance: Oxyfluorfen

CAS Number: 42874-03-3

Chemical Identity of Ingredients	CAS No	Proportion (w/v)
Oxyfluorfen	42874-03-3	240 g/L
N-methyl-2-pyrrolidone (NMP)	872-50-4	10.8 g/L
Aromatic hydrocarbon	-	60.6 g/L
Other ingredients determined not to be hazardous	-	Add to 1L

4. FIRST AID MEASURES

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.

Ingestion: Do not induce vomiting unless told to do so by Poisons Information Centre or doctor. Do not give anything by mouth to an unconscious person.

Eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1 to 2 minutes and continue flushing for several additional minutes.

Skin contact: Remove material from skin by washing with soap and plenty of water. Remove contaminated clothing and wash before reuse. Discard items which cannot be decontaminated such as shoes belts and watchbands.

Inhalation: Move person to fresh air. If person is not breathing give artificial

respiration. If breathing is difficult, oxygen should be administered by qualified personnel.

Poisoning Symptoms: Poisoning symptoms in laboratory animals were non-specific. **Medical Advice:** Treat symptomatically. If lavage is performed suggest endotracheal and /or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying stomach.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use carbon dioxide, dry chemical, water spray or foam.

Hazards from Combustion Products:

Combustion generates toxic fumes of hydrogen chloride, hydrogen fluoride, and nitrogen oxides.

Special Protective Precautions and Equipment for Fire Fighters:

Avoid breathing smoke, Remain upwind. Wear self contained breathing apparatus and full protective gear. Use water spray to cool containers exposed to fire. Contain run-off.

Hazchem Code: 2X

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures: In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

Methods and Materials for Containment and Clean Up:

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Re-position any leaking containers so as to minimise further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50L of product bury in a secure landfill site.
 - For quantities greater than 50L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Will damage eyes and will irritate the skin. Avoid contact with eyes and skin. When opening the container, preparing spray and using the prepared spray, wear:

- cotton overalls buttoned to the neck and wrist
- washable hat

- elbow-length butyl rubber gloves
- goggles

If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

Conditions for Safe Storage: Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: TWA 25ppm; STEL 75ppm; AHIA WEEL 10ppm, skin.

Biological Limit Values: No biological limits allocated.

Engineering Controls: Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas use mechanical ventilation. No biological limit allocated

Personal Protective Equipment: Will damage eyes and will irritate the skin. Avoid contact with eyes and skin. When opening the container, preparing spray and using the prepared spray, wear:

- cotton overalls buttoned to the neck and wrist
- washable hat
- elbow-length butyl rubber gloves
- goggles.

If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear brown liquid

Boiling Point/Range: >200°C

Odour: Aromatic solvent odour

Freezing/Melting Point: Not available.

Solubility: Emulsifiable in water

Vapour Pressure: 0.29 mm Hg at 20°C

Specific Gravity: 1.08

Flash Point: 97 °C (closed cup)

Explosive Properties: Not available

Combustibility: Combustible C1

Ignition Temperature: 346 °C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal storage conditions.

Conditions to Avoid: Avoid contact with ignition sources.

Incompatible Materials: Avoid contact with strong acids, bases amines, oxidizing agents, halogens and sodium hypochlorite.

Hazardous Decomposition Products: Thermal decomposition may yield the

following: hydrogen chloride, hydrogen fluoride and nitrogen oxides.

Hazardous Reactions: None known to occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral toxicity: Oral LD50 (rat) 2985 – 4594 mg/kg (similar formulation)

Dermal toxicity: Dermal LD50 (rat) > 4000 mg/kg (similar formulation)

Inhalation: LC50 (rat) > 4.8 mg/kg for 4 hours.

Skin irritation: Brief contact may cause skin irritation with pain and local redness.

Eye irritation: May cause moderate eye irritation and slight corneal injury. Vapour may cause eye irritation experienced as mild discomfort and redness.

Sensitisation: Skin contact may cause allergic reaction.

Chronic toxicity:

Oxyfluorfen has been seen to have effects on bone marrow, spleen, liver, kidney, blood, adrenals and urinary bladder. It has caused cancer in some animals has had toxic effects on the foetus but only at doses toxic to the mother. Effects on reproduction have been seen but only at doses toxic to the parent. No mutagenic effects have been seen.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Oxyfluorfen is very highly toxic to aquatic organisms. EC50 blue-green alga (*Anabaena flos-aquae*) > 0.2 mg/L; EC50 growth inhibition in duckweed is 0.0003 mg/L

Oxyfluorfen is practically non toxic to birds, LD50 > 2000 mg/kg; LC50 earthworm (*Eisenia foetida*) > 1000 mg/kg.

Persistence and Degradability: Biodegradation of Oxyfluorfen under anaerobic conditions is below detectable limits.

Bioaccumulative Potential: Bioconcentration of oxyfluorfen is moderate (BCF of 100-3000)

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Triple, or preferably pressure rinse containers before disposal. Add rinsings 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 not available, bury the containers below 500 mm 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.

Special Precautions for Landfill or Incineration: Not applicable

14. TRANSPORT INFORMATION

LAND TRANSPORT: Not a dangerous good

SEA TRANSPORT

UN Number: 3082

Packing Group: III

UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid,
N.O.S. (oxyfluorfen)

Class: 9

Hazchem Code: 2X

Marine Pollutant: Yes

AIR TRANSPORT

UN Number: 3082 P

Packing Group: III

UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid,
N.O.S. (oxyfluorfen)

Special Precautions

Class: 9

Hazchem Code: 2X

15. REGULATORY INFORMATION

Poisons Schedule (SUSDP): 5 (CAUTION)

16. OTHER INFORMATION

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 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 this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.