

Material Safety Data Sheet

פאלקון - Falcon

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Version: 3

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Falcon (Development name: D1)

Type: SC

Use: Herbicide

Chemical Family: Nicotinanilide

Manufacturer: Tapazol Chemical works Ltd.

Address: HaSolela 1, West ind. Zone, Beit Shemesh, 99052

Tel: 972-2-992-6040

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/l)
Diflufenican	83164-33-4	500
Propylene glycol	107-98-2	70-90

3. HAZARDS IDENTIFICATION

Slightly toxic by ingestion or by contact with skin.

May cause mild eye irritation.

Chronic exposure: Reproductive hazard.

Slightly toxic to aquatic life.

4. FIRST AID MEASURES

First Aid Facilities: Ensure washing facilities are available.

If poisoning occurs, immediately contact a doctor or Poisons Information Centre and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice as above. DO NOT attempt to give anything by mouth to a semi-conscious or unconscious person.

Eyes: Rinse immediately with clean water for at least 15 minutes and obtain medical aid.

Skin: Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical aid if at all worried.

Inhalation: Remove victim to fresh air and keep at rest. Obtain medical advice if at all worried.

Advice to Doctor: No specific antidote known. Treatment should be symptomatic and supportive after decontamination. In case of skin or eye contamination, treat as above under "First Aid". Recovery is expected to be spontaneous.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water, foam, dry agent, carbon dioxide

Protective equipment: Full protective gear, including self-contained breathing apparatus (AS/NZS 1716) must be worn.

Hazardous products of combustion may include: Oxides of carbon and nitrogen, and compounds of fluorine including hydrofluoric acid.

Special Fire Fighting Procedures: Do not release contaminated water into the environment. Keep intact containers cool by spraying with water.

Flammability: Non flammable.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Avoid contact with spilled material or contaminated surfaces. During the clean up operation it is recommended that protective clothing and equipment be worn – See Personal Protection section above.

Contain spill and absorb with earth, sand, clay or other absorbent material and store in properly labeled sealed drums for safe disposal. DO NOT burn empty containers or product. Deal with all spillages immediately.

Environmental Protection: If contamination of drains, streams, watercourses etc. is unavoidable, warn the local water authority. Neutralizing chemicals are not needed.

7. HANDLING AND STORAGE

Keep out of reach of children. Avoid contact with the eyes and skin. Store in the closed original container in a dry, cool, well-ventilated area, out of direct sunlight. Store in locked room or place away from children, animals, food, animal feed, seed and fertilizers. Protect from frost. Always wash hands after use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards: PEL (Permissible Exposure Level) for Diflufenican recommended by the company is 2.3 mg/m³.

Engineering controls: Control process conditions to avoid contact. Use only in a well ventilated area.

This product has a low toxicity, but if exposure to a large amount is likely, the following protection is recommended:

Eye: Wear glasses or goggles.

Skin/ Body protection: Wear elbow length PVC gloves. Wear long-sleeved overalls.

Always wash hands after use.

Respiratory protection: Not normally required. Wear an organic cartridge respirator if inhalation of spray is possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A viscous, light brown liquid suspension

Melting/Boiling point: >100°C.

Specific Gravity: 1.175 at 20°C.

Water solubility: Miscible (active ingredient Diflufenican is insoluble).

pH: 8.2

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions

Conditions to avoid: Avoid contact with strong acids, bases and oxidizers.

Avoid extreme heat and fire.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rat: >2000 mg/kg.

Dermal: LD50 for rat: >2000 mg/kg.

Inhalation: Rat LC₅₀ () > 2.34 mg/L (4 h) Species: Rat

Skin irritation: Non-irritant (rabbit).

Eye irritation: Mild irritant (rabbit).

Skin sensitization: Not a sensitizer (mouse).

Chronic toxicity: Long term studies on rats, mice and dogs showed no carcinogenic

teratogenic or oncogenic potential for the active ingredient Diflufenican. Diflufenican was not mutagenic. The no observable effect level for Diflufenican is 16.3 mg/kg/day.

Reproductive hazard: Decrease in maternal body weight.

12. ECOLOGICAL INFORMATION

For Active Ingredient Diflufenican:

Birds: Acute oral LD₅₀ for quail > 2,150 mg/kg; for mallard ducks > 4,000 mg/kg.

Fish: LC₅₀ (96 h) for rainbow trout 75 mg/L; for carp 105 mg/L.

Daphnia: LC₅₀ (48h) – no effect at 10 mg/l.

Algae: No growth inhibition of algae (96h) at 10mg/l.

Bees: Non-toxic by ingestion or contact.

Worms: Non-toxic to earthworms.

13. DISPOSAL CONSIDERATIONS

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

Waste Disposal Methods: Triple (or preferably) pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Empty containers and product should not be burnt. Dispose of waste product via a licensed disposal contractor to an approved landfill.

14. TRANSPORT INFORMATION

The product is not classified as a Dangerous Good under the Code for the Transport of Dangerous Goods by Road and Rail.

UN no.: Not applicable.

Class: Not classified as Dangerous Goods for transport by road or rail.

Packaging group: Not applicable.

15. REGULATORY INFORMATION

R phrases:

R60: May impair fertility

S phrases:

S1/2: Keep locked up and out of the reach of children

S3/7/9: Keep container tightly closed in a cool, well-ventilated place

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

16. OTHER INFORMATION

Disclaimer: The information provided by TAPAZOL CHEMICAL WORKS Ltd. In the above document is given in good faith and to the best of our knowledge. However, no warranty is expressed or implied.