

Material Safety Data Sheet

מטרו - Metro

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1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Metro

Type: SC

Use: Herbicide

Manufacturer: Tapazol Chemical works ltd.

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

Tel: 972-2-992-6040 **Fax:** 972-2-9926050 **e-mail:** info@tapazol.co.il

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (g/)
Metribuzin	21087-64-9	480
Glycerin	56-81-5	130-160
Other non-active non-hazardous ingredients	N/A	360-390

AI chemical family: Triazinone

3. HAZARDS IDENTIFICATION

Metro is harmful by ingestion and in contact with skin and may cause mild eye irritation.

The AI may affect development and reproduction. Glycerin may also have chronic effects in prolonged exposure.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Move out of dangerous area. If the patient is likely to become unconscious, place and transport in stable sideways position.

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 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 .

Skin: Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or Poison Control Centre immediately .

Ingestion: Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a physician or Poison Centre immediately .

Inhalation: Take affected person to fresh air. If person is not breathing, call an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or Poison Control Centre immediately .

Notes to Physician: Treat symptomatically. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

5. FIRE-FIGHTING MEASURES

Flash point: $>100^{\circ}\text{C}$.

Extinguishing media: water spray, dry chemical, carbon dioxide (CO₂), foam, sand.

Hazardous products of combustion may include: HCN, CO, SO₂, NO_x.

Fire Fighting Instructions and protective equipment: Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. In the event of fire and/or explosion do not breathe fume and use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Environmental Protection: Prevent the material from entering sewage and water courses.

Procedure: Absorb with material such as sand or sawdust and collect into containers for disposal. Dike area in case of large spills. Report large spills.

For spills in public area, keep public away and advise local authorities.

Wash clothes, equipment and work area after cleaning.

7. HANDLING AND STORAGE

Storage: Store in tightly closed original container in a cool, dry well-ventilated area out of direct sunlight and out from the reach of children. Do not store with food, feedstuffs, fertilizers and seeds.

Handling: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Do not eat, drink or smoke while handling.

Change clothes and wash thoroughly when finishing working with the product.

Wash working clothes in separate from household laundry and do not re-use clothes that are not washed.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits: Train employees in safe use of the product. Follow all label instructions.

Metribuzin NOHSC exposure standard (TWA): 5 mg/m³

Glycerin NOHSC exposure standard (TWA): 10 mg/m³

Engineering controls: The use of local exhaust ventilation is recommended to control process emission near the source.

Eye/ Face protection: Safety glasses with side-shields or goggles.

Skin/body protection: Long-sleeved shirt and long pants, shoes plus socks, coveralls.

Respiratory protection: When respiratory protection is necessary under the conditions of use, wear a respirator approved by the National Institute for Occupational Safety and Health.

Hand protection: PVC gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white liquid.

Odor: Slight, specific.

pH: 7.6

Melting: -10°C.

Boiling point: ~100°C.

Water solubility: Miscible.

Specific Gravity: 1.125.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions .

Conditions to avoid: Heat, flame, ignition sources and incompatibles.

Hazardous decomposition products: HCN, CO, SO₂, NO_x.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50 for rat: >300 mg/kg.

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

Skin irritation: Non-irritant (rabbit).

Eye irritation: Mild irritant (rabbit).

Skin sensitization: Non-sensitizer (mouse).

Inhalation: LC50 (4h) for rat: 3.055 mg/l (liquid aerosol).

Chronic toxicity:

Metribuzin is not carcinogenic or mutagenic. It may have reproductive and developmental effects, based on laboratory animal studies.

Glycerin may be genotoxic and have reproductive effects in prolonged exposure.

12. ECOLOGICAL INFORMATION

For Active ingredient Metribuzin:

Birds: acute oral LD50: 164 mg/kg for bobwhite quail, 470 mg/kg for mallard ducks.

Fish: LC50 (96h): 74.6 mg/l for rainbow trout, 85 mg/l for sheepshead minnows.

Daphnia: LC50 (48h): 49.6 mg/l.

Bees: not toxic to bees. LD50 35 microgram/bee.

13. DISPOSAL CONSIDERATIONS

Dispose of according to local regulations. Avoid entry of product into sewer system or water surfaces.

Container Disposal: Triple rinse containers, puncture and dispose of in a sanitary landfill.

14. TRANSPORT INFORMATION

UN no.: 2902 (Pesticide, liquid, toxic, N.O.S.)

Class: 6.1

Packaging group: III

15. REGULATORY INFORMATION

R phrases:

R21/22: Harmful in contact with skin and if swallowed

R36: Irritating to eyes

R52/53: Harmful to aquatic organisms, May cause long-term adverse effects in the aquatic environment

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

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

S25: Avoid contact with eyes

16. OTHER INFORMATION

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