



MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 2 / 3 / 2008

Supersedes : 0 / 0 / 0

NICANOR 50 WP

H-0076

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : NICANOR 50 WP
Chemical description : Metsulfuron-methyl Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate
Use : Herbicide.
Company identification : Agan Chemical Manufacturers Ltd.
P.O.B. 262
ASHDOD Israel
Emergency phone nr : +972-8-8515211
Email : MSDS@ma-industries.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Metsulfuron-methyl	48 - 53 %	74223-64-6	-----	613-139-00-2	N; R50-53

3. HAZARDS IDENTIFICATION

Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

First aid
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration .
Get medical attention.
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Skin contact : Remove contaminated clothing and shoes. Wash away remainder with plenty of water.
Eye contact : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.
Protection of first-aiders : Use appropriate protection (see section 8).

5. FIRE-FIGHTING MEASURES

Extinguishing media : For small fire : dry chemical powder , water spray, carbon dioxide.
For large fire : foam , water fog , water spray.
Hazardous decomposition products : Sulfur oxides , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .
Protection of fire-fighters : Self-contained breathing apparatus and total protection required in enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions : Do not empty into drains. Do not discharge into the environment.
After spillage and/or leakage : Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.
Keep away from combustible material.



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7. HANDLING AND STORAGE

- Handling** : Ventilation required.
- Storage** : Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.
- Precautions in handling and storage** : Handle in accordance with good industrial hygiene and safety procedures.
- Storage - away from** : Direct sunlight .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures** : Ventilation required.
- Industrial hygiene** : Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
- Personal protection**
- **Respiratory protection** : Dust mask
 - **Skin protection** : Wear suitable protective clothing Wear safety boots.
 - **Hand protection** : Wear suitable gloves.
 - **Eye protection** : Chemical goggles or safety glasses.
- Occupational Exposure Limits**
- TLV** : Metsulfuron-methyl: No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Powder
- Colour** : White -off white
- Odour** : Faint odour
- pH value** : 4-5
- Melting point [°C]** : 158
- Vapour pressure [mPa]** : 3.3 e-7 @ 25°C (Metsulfuron-methyl)
- Solubility in water** : Dispersible
- Log P octanol / water** : 0.018 @ pH 7, 25°C (Metsulfuron-methyl)
- Flammability** : Not flammable
- Explosion properties** : Not explosive
- Oxidation properties** : Not oxidizing

10. STABILITY AND REACTIVITY

- Stability** : Stable under normal conditions.
- Hazardous decomposition products** : Sulfur oxides , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .
- Materials to avoid** : oxidizing agents , acids , alkali .

11. TOXICOLOGICAL INFORMATION

- On product**
- Rat oral LD50 [mg/kg]** : >5,000
- Rabbit dermal LD50 [mg/kg]** : >2,000
- Rat inhalation LC50 [mg/l/4h]** : >5.0
- Dermal irritation (rabbit)** : Not irritating
- Eyes irritation (rabbit)** : Mildly irritating



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11. TOXICOLOGICAL INFORMATION (continued)

Sensitization	: Non sensitizer
Chronic toxicity	: (Metsulfuron-methyl): NOEL (rat)=500 ppm (2 years). NOEL (male dog)=500 ppm (1 year)
Carcinogenicity	: (Metsulfuron-methyl): EPA: Group E EU : Not classified IARC : Not classified
Mutagenicity	: (Metsulfuron-methyl): Not mutagenic.
Reproductive toxicity	: (Metsulfuron-methyl): NOEL (rat)= 500 ppm
Teratogenicity	: (Metsulfuron-methyl): NOEL (rat)=40 mg/kg/day

12. ECOLOGICAL INFORMATION

Common name	: Metsulfuron-methyl
96 H-LC50 - Bluegill sunfish [mg/l]	: >150
96 H-LC50 - Rainbow trout [mg/l]	: >150
48 H-EC50 - Daphnia magna [mg/l]	: >120
72 H-EC50 Algae [mg/l]	: 0.157
LD50 Birds [mg/kg]	: Mallard duck >2,500
Birds LC50 [ppm]	: (8 day feeding): Mallard duck >5,620 (8 day feeding): Bobwhite quail >5,620
Bees LD50 [µg/Bee]	: Oral >44 Contact > 50
Persistence and degradability	: Metsulfuron-methyl: Soil : : Moderately persistent in soil. Half-life time (t1/2) : 30 days. Degradation is primarily via: chemical hydrolysis , microorganisms.
Mobility	: (Metsulfuron-methyl): Soil : : Moderately mobile Koc =35 ml/g @ pH 7

13. DISPOSAL CONSIDERATIONS

Disposal	: Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.
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14. TRANSPORT INFORMATION

International transport regulations	
- UN No.	: 3077
- Proper shipping name	: Environmentally hazardous substances, solid, N.O.S. (Metsulfuron-methyl).
Land transport	
- H.I. nr :	: 90
- ADR/RID	: Class 9, M7, PG III
Sea transport	
- IMO-IMDG code	: Class 9, PG III
- EMS-Nr	: F-A, S-F
Air transport	

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14. TRANSPORT INFORMATION (continued)

- IATA - Class or division : 9, PG III
National transport regulations : No additional national regulations are available/required

15. REGULATORY INFORMATION

- EU Classification : According to Commission Directive 67/548/EEC and its amendments
Symbol(s)



- R Phrase(s) : Dangerous for the environment.
: R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S Phrase(s) : S02 - Keep out of the reach of children.
S13- Keep away from food, drink and animal feedingstuffs.
S29/35- Do not empty into drains; dispose of this material and its container in a safe way.
S36/37- Wear suitable protective clothing and gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.
S57- Use appropriate containment to avoid environmental contamination.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

- Text of R-phrases in heading 2 : R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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