



# MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 18 / 3 / 2008

Supersedes : 0 / 0 / 0

## NICOSULFURON 75 WDG

H-0104

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

Trade name : NICOSULFURON 75 WDG  
Chemical description : Nicosulfuron: 2-[[[4,6-dimethoxy-2-pyrimidinyl]amino]carbaonyl]amino]sulfonyl]-N, N-dimethyl-3-pyridinecarboxamide  
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
Nicosulfuron	72.5 - 77.5 %	111991-09-4	----	----	

### 3. HAZARDS IDENTIFICATION

Human health hazards : Irritating to eyes.  
Environmental hazard : Harmful 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.



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### 7. HANDLING AND STORAGE

- Handling** : Ventilation required.  
**Storage** : Keep in original containers. 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** : Nicosulfuron: No data available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Granules  
**Colour** : Tan  
**Odour** : Faint odour  
**Melting point [°C]** : Nicosulfuron:169-174  
**Vapour pressure [mPa]** : Nicosulfuron <8 e-7@ 25°C (Nicosulfuron)  
**Solubility in water** : Dispersible  
**Log P octanol / water** : Nicosulfuron: -0.3 (pH 5)  
-1.8 (pH 7)  
-2 (pH 9)  
**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

- Toxicity information**  
**Rat oral LD50 [mg/kg]** : >5,000  
**Rat dermal LD50 [mg/kg]** : >2,000  
**Rat inhalation LC50 [mg/l/4h]** : >5.6  
**Dermal irritation (rabbit)** : Mildly irritating  
**Eyes Irritation (rabbit)** : Moderately irritating  
**Sensitization** : Non sensitizer



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### 11. TOXICOLOGICAL INFORMATION (continued)

Chronic toxicity	: Nicosulfuron: : NOEL (rat)=20,000 mg/kg/day (2 years). : NOEL (dog)=5,000 mg/kg/day (1 year).
Carcinogenicity	: (Nicosulfuron): : EPA , EU , IARC : not classified.
Mutagenicity	: Nicosulfuron: Not mutagenic.
Reproductive toxicity	: Nicosulfuron: NOEL (rat): 5,000 ppm
Teratogenicity	: Nicosulfuron: NOEL (rat) =6,000 mg/kg/day : NOEL (rabbit): 100 mg/kg/day (maternal), 500 mg/kg/day (fetal).

### 12. ECOLOGICAL INFORMATION

Common name	: Nicosulfuron
96 H-LC50 - Bluegill sunfish [mg/l]	: >1,000
96 H-LC50 - Rainbow trout [mg/l]	: >1,000
48 H-EC50 - Daphnia magna [mg/l]	: >1,000
96 H - EC50 - Algae [mg/l]	: NOEC =100
LD50 Birds [mg/kg]	: Nicosulfuron: Bobwhite quail >2,250
Birds LC50 [ppm]	: (8 day feeding): Bobwhite quail >5,620
Bees LD50 [µg/Bee]	: Contact >76
Persistence and degradability	: Soil : Half-life time (t1/2) (Lab): 26 days @ 22 °C : Half-life time (t1/2) (Field): 21 days : Half-life time (t1/2) (photolysis): 60-67 days : Degradation is primarily via: photolysis , microorganisms
	: Water : : Half-life time (t1/2) : (photolysis): 14-19 days (pH 5) : : 200-250 days (pH 7) : : 180-200 days (pH 9) : Half-life time (t1/2) : (hydrolysis): 15 days (pH 5).
Mobility	: Soil : : Not mobile : Kd =0.16-1.73 : Koc =30 ml/g
Bioaccumulative potential	: Low bioaccumulation potential

### 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. (Nicosulfuron)
Land transport	
- H.I. nr :	: 90



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## 14. TRANSPORT INFORMATION (continued)

- ADR/RID : Class 9, M7, PG III  
Sea transport  
- IMO-IMDG code : Class 9, PG III  
- EMS-Nr : F-A, S-F  
Air transport  
- 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) : Irritant



- R Phrase(s) : R36 - Irritating to eyes.  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S Phrase(s) : 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.  
S39 - Wear eye/face protection.  
S57 - Use appropriate container to avoid environmental contamination.  
S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

## 16. OTHER INFORMATION

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