



MATERIAL SAFETY DATA SHEET

Page : 1

Revised edition no : 1

Date : 17 / 7 / 2008

Supersedes : 0 / 0 / 0

CINDER**H-0343**

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

Trade name : CINDER
Chemical description : Pendimethalin: N-1(ethylpropyl)-2,6-dinitro-3,4-xylidine
Use : Herbicide.
Company identification : Agan Chemical Manufacturers 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
Pendimethalin	: 33 - 37 %	40487-42-1	254-938-2	609-042-00-X	R43 N; R50-53

3. HAZARDS IDENTIFICATION

Human health hazards : May cause sensitization by skin contact.
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 : Nitrogen oxide , 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. Absorb in sand or other inert material. Dispose of this material and its container at hazardous or special waste collection point.



MATERIAL SAFETY DATA SHEET

Page : 2

Revised edition no : 1

Date : 17 / 7 / 2008

Supersedes : 0 / 0 / 0

CINDER

H-0343

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 . Keep away from heat, sparks and flame.

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	: Respiratory protection is not required if good ventilation is maintained
- 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	: Pendimethalin: No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Capsules suspension
Colour	: Orange - Yellow
Odour	: Faint odour
pH value	: ~ 7.6
Density [gr/ml]	: 1.15 ±0.02 @ 20 °C
Vapour pressure [mPa]	: 4.0 @25 °C (Pendimethalin).
Solubility in water	: Miscible
Log P octanol / water	: 5.18 (Pendimethalin).
Flammability	: Not flammable
Explosion properties	: Not explosive
Oxidation properties	: Not oxidizing .

10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Hazardous decomposition products	: Nitrogen oxide , carbon oxides (CO, CO2) .
Materials to avoid	: oxidizing agents , acids , alkali .

11. TOXICOLOGICAL INFORMATION

On product	: Based on data of ingredients
Rat oral LD50 [mg/kg]	: >2,000
Rat dermal LD50 [mg/kg]	: > 2,000
Rat inhalation LC50 [mg/l/4h]	: >5.0 (Pendimethalin)
Dermal irritation (rabbit)	: Mildly irritating
Eyes irritation (rabbit)	: Slight irritant
Sensitization	: Moderate sensitizer
Carcinogenicity	: Pendimethalin:



MATERIAL SAFETY DATA SHEET

Page : 3

Revised edition no : 1

Date : 17 / 7 / 2008

Supersedes : 0 / 0 / 0

CINDER**H-0343**

11. TOXICOLOGICAL INFORMATION (continued)

	: EPA Group C: Possible human carcinogen EU , IARC : not classified.
Mutagenicity	: Not mutagenic.
Reproductive toxicity	: Not teratogenic in animal experiments
Teratogenicity	: Not teratogenic in animal experiments

12. ECOLOGICAL INFORMATION

Common name	: Pendimethalin:
96 H-LC50 - Rainbow trout [mg/l]	: 0.14
48 H-EC50 - Daphnia magna [mg/l]	: 0.28
72 H-EC50 Algae [mg/l]	: 0.01
LD50 Birds [mg/kg]	: Mallard duck =1,421
Bees LD50 [µg/Bee]	: Not toxic to bees
Persistence and degradability	: Soil : : Degradation is primarily via: microorganisms . Moderately persistent in soil . Half-life time (t1/2) 25-30 days.
	: Water : : Half-life time (t1/2) <21 days. Product does not leach to ground water. .
Mobility	: Soil : : Not mobile . Adsorbed on organic matter and clay.

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.
-----------------	--

14. TRANSPORT INFORMATION

- UN No.	: 3082
- Proper shipping name	: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(PENDIMETHALIN), 9, III
- Packing group	: III
- Class	: 9
- H.I. nr :	: 90
- IMDG-Marine pollution	: NO

15. REGULATORY INFORMATION

EU Classification	: This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations
Symbol(s)	: Xi: Irritant N: Dangerous for the environment.





MATERIAL SAFETY DATA SHEET

Page : 4

Revised edition no : 1

Date : 17 / 7 / 2008

Supersedes : 0 / 0 / 0

CINDER**H-0343**

15. REGULATORY INFORMATION (continued)

- R Phrase(s)** : R43 - May cause sensitization by skin contact.
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.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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** : R43 - May cause sensitization by skin contact.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Print date : 5 / 10 / 2008

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document