

SAFETY DATA SHEET

22/8/07

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

Dow AgroSciences Limited

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Product Name: **TORDON* 22K HERBICIDE: MAFF 05083**

LV70: 60574

Issue Date: Feb. 93

Ref: H891D

Revised: Aug. 07 (Section(s) 1, 2, 3, 15)

For question about this SDS, contact: SDSQuestion@dow.com

2. HAZARDS IDENTIFICATION

May cause sensitization by skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Dangerous components (see section 16 for complete R-phrases):

		CAS	EC No
Picloram potassium salt	278 g/L	002545-60-0	219-829-6

Inert ingredients Balance

4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Ingestion

Do not induce vomiting. Call a physician. The decision of whether to induce vomiting or not should be made by a physician.

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Eye Contact

Irrigate immediately with water for at least 5 minutes. Consult a physician if irritation persists.

Skin Contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Wash contaminated clothing before re-use.

Inhalation

Remove to fresh air. Consult a physician.

Note to Physician

Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES**Extinguishing Media**

Water fog or fine spray. Carbon dioxide. Dry chemical fire extinguishers. Foam.

Hazardous Combustion Products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Protection of Firefighters

Wear protective clothing and use self-contained breathing apparatus.

Additional Information

Keep containers cool by spraying with water. Contain run-off to prevent entry into water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

Wear appropriate safety clothing and eye/face protection (see Section 8). Prevent skin contact.

Environmental Precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods of Cleaning Up

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

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7. HANDLING AND STORAGE

Handling

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid skin contact. Remove contaminated clothing immediately and wash skin area with plenty of water.

Storage

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Picloram: ACGIH Threshold Limit Value (TLV) is 10 mg/m³ TWA 8 hours.

UK: Time-Weighted Average (TWA) is: 10 mg/m³.
Short-Term Exposure (STEL) is: 20 mg/m³.

Engineering Controls

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respiratory Protection

When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Hand/Skin Protection

For brief contact, no precautions other than clean body-covering clothing and chemical resistant gloves should be needed. For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

Eye/Face Protection

Use safety glasses. Where contact with the liquid is likely, chemical goggles are recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: dark brown
Rel. density (water=1)	: 1.14 g/cm ³ (approx.)
Boiling point/range	: 100 deg.C (approx.)
pH	: 9.0-11.2
Vapour pressure	: 22 mmHg/20 deg.C (approx.)
Flash point	: >100 deg.C (TCC)
Water solubility	: miscible

10. STABILITY AND REACTIVITY

Chemical Stability

Is stable under normal storage conditions.

Conditions to Avoid

Avoid extremes of temperature.

Materials to Avoid

Strong basic, acidic or oxidising materials.

Hazardous Decomposition Products

None under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Ingestion

Low toxicity if swallowed.
The oral LD₅₀ for rats is >2000 mg/kg.

Skin Contact

The dermal LD₅₀ for rabbits is >2000 mg/kg.
Prolonged skin contact is unlikely to result in absorption of harmful amounts.
Prolonged or repeated exposure may cause slight skin irritation.

Sensitisation

Sensitising to guinea pig skin.

Eye Contact

May cause slight eye irritation.

Inhalation

No adverse effects anticipated by this route of exposure incidental to proper handling.

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12. ECOLOGICAL INFORMATION

Assessment largely or completely based on data for active ingredient.

Persistence and Degradability

The major route of degradation is by photolysis and photodegradation. Microbial degradation leads to formation of parent acid which undergoes further degradation. Half-life of the parent acid in soil is dependent on conditions and is approximately 10-278 days.

Aquatic Toxicity

Based on the acid.

Acute LC₅₀ for daphnids is reported to be 68 mg/L.

Algal toxicity EC₅₀ for green algae is 37 mg/L.

Based on data for the formulation.

Acute LC₅₀ for sheepshead minnow (*Cyprinodon variegatus*) is >100 mg/L.

Avian Toxicity

Based on data for the formulation.

Dietary LC₅₀ for mallard duck is >10 mg/kg of diet.

Dietary LC₅₀ for bobwhite (*Colinus virginianus*) is >10 mg/kg diet.

Other Information

Active ingredient:

Material is practically non-toxic to bees on an acute basis.

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

14. TRANSPORT INFORMATION

Sample shipment not allowed by mail. Product is not classified for any mode of transportation.

15. REGULATORY INFORMATION

Hazard Symbol : Xi - Irritant

Risk Phrases : May cause sensitisation by skin contact (R43).

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Safety Phrases : Keep out of reach of children (S2).
Avoid contact with skin (S24).
Wear suitable gloves (S37).

Refer to the Product Label for full local Regulatory Authority label precautions.

16. OTHER INFORMATION

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied is made.

