
1. IDENTIFICATION**Preparation** : **TORDON 22K****Supplier** : Nomix Enviro Ltd, Portland Building,
Portland Street, Staple Hill, Bristol BS16 4PS.
Tel. 0117 9574 574 Fax. 0117 9563 461**Chemical Emergency Agency Service (24 hr):** Tel. 01865 407 333

2. COMPOSITION/INFORMATION ON INGREDIENTS**Composition** :Picloram potassium salt : 278 g/l **CAS No** 002545-60-0

Inert ingredients : Balance

Registration Number : **05790**

3. HAZARDS IDENTIFICATION

May cause sensitisation by skin contact

Harmful to aquatic organisms.

4. FIRST-AID MEASURES**Inhalation:**

Remove to fresh air. Consult a physician.

Skin contact:

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse.

Eye Contact:

Irrigate immediately with water for at least 5 minutes. Consult medical personnel.

Ingestion:

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

Further Medical Advice:

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

Note to Physician:

No specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

5. FIREFIGHTING MEASURES**Extinguishing media:**

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

Hazardous Combustion Products:

During a fire smoke may contain original material in addition to unidentified toxic and/or irritating compounds.

Protection of Firefighters:

Wear protective clothing and use self-contained breathing apparatus.

Additional Information:

Keep containers cool by spraying with water. Contain runoff 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).

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.

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.

7. HANDLING AND STORAGE**Handling:**

Wear coveralls and protective gloves when handling the concentrate. 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 eye 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.

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 or under 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.

Eye/Face Protection:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	dark brown
Boiling Point (Deg C)	:	100 °C (approx.)
Flash Point	:	> 100 °C(TCC)
Vapour Pressure (mm Hg)	:	22mm hg/20 deg.C (approx.)
Density (g/ml)	:	1.14 g/cm ³ (approx.)
Solubility in water	:	miscible
pH	:	9.0 -11.2

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**Inhalation:**

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

Skin Contact:

The dermal LD50 for rabbits is >2000mg/kg. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

Sensitisation:

Sensitising to guinea pig skin.

Eye Contact:

May cause eye irritation.

Ingestion:

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

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.

Dietary 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 quail is > 10 mg/kg of 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

ADR Class/Conveyance class: 9
Packing group: III
UN No: 3082

Environmentally Hazardous Substance

15. REGULATORY INFORMATION

Hazard Symbol: Xi Irritant

Risk Phrases: R43 May cause sensitisation by skin contact

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

16. OTHER INFORMATION

The information contained within this Material Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other national health and safety legislation such as the Health and Safety at Work Act (1974) and the Control of Substances Hazardous to Health Regulations (1988).

Read the label before you buy: Use pesticides safely.

Date of MSDS Review : 18.07.04 Supersedes MSDS Dated : 12.09.03

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