

MATERIAL SAFETY DATA SHEET

Alligare, LLC
Opelika, AL 36801
Emergency Phone:
Chemtrec 800-424-9300
Effective Date: January, 2006
Product Code: 42750-81-81927
MSDS:

Picloram K

1. PRODUCT AND COMPANY IDENTIFICATION:

COMPANY ADDRESS:

Alligare, LLC
Opelika, AL 36801

EMERGENCY TELEPHONE NUMBERS:

(800) 424-9300 (CHEMTREC, transportation and spills)

PRODUCT NAME: Picloram K

CHEMICAL NAME: 4-amino-3,5,6-trichloropicolinic acid,
potassium salt

CHEMICAL FAMILY: pyridine herbicide

PRODUCT CODE: EPA Reg. No. 42750-81-81927

2. COMPOSITION/INFORMATION ON INGREDIENTS:

COMPONENT: Picloram, Potassium salt

PERCENTAGE: 24.4

CAS NUMBER: 2545-60-0

OSHA PEL: Not listed

ACIGH TLV: Not listed

3. HAZARD IDENTIFICATION:

(As defined by OSHA Hazard Communication Standard,
29 CFR 1910.1200)

HEALTH HAZARDS: Severe eye irritant with corneal injury possible.

PHYSICAL HAZARDS: May release toxic fumes if burned.

ENVIRONMENTAL HAZARDS: Picloram is highly toxic to certain terrestrial plant species and is moderately mobile in certain soil types.

4. FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIRE-FIGHTING MEASURES:

FLASHPOINT (method): Will not flash.

FLAMMABLE LIMITS (LFL - UFL): Unknown

FIRE AND EXPLOSION HAZARD: May decompose in fire due to thermal decomposition, releasing irritating and toxic gases.

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE-FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid possible hazardous fumes and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

FIRE-FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride, Oxides of nitrogen, Chlorinated pyridine.

6. ACCIDENTAL RELEASE MEASURES:

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

Wear appropriate personal protection equipment. (See Section 8 Exposure Controls, Personal Protection.)

7. HANDLING AND STORAGE:

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

STORAGE: Store in original container with lid tightly closed. Keep away from food, feed and drinking water. Combustible liquid, store in a well-ventilated, dry place away from heat and other sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EXPOSURE LIMITS (8 hour TWA, ppm): Refer to Section 3.

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE PROTECTION – Safety goggles or glasses with side shields.

CLOTHING – Long-sleeved shirt and long pants, shoes plus socks.

GLOVES – Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC) or viton.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL DESCRIPTION: Dark brown liquid

ODOR: No appreciable odor

SPECIFIC GRAVITY: 1.154 @ 20 C (9.63 lb/gal)

pH: 8.5 – 8.7

VAPOR PRESSURE: 23 mmHg @ 20 C

VAPOR DENSITY: Unknown

WATER SOLUBILITY: Miscible

10. STABILITY AND REACTIVITY:

CHEMICAL STABILITY: Stable, however may decompose if heated.

CONDITIONS TO AVOID: Avoid temperatures above (105°F, 40°C) and below 40°F (6°C).

INCOMPATIBILITY WITH OTHER MATERIALS: Strong acids and oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride and Oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY:

Oral LD₅₀ (rat) > 5,000 mg/Kg

Dermal LD₅₀ (rat) > 5,000 mg/Kg

Inhalation LC₅₀ (rat) > 2.05 mg/L

Eye Irritation (rabbit) – Moderate, can cause corneal injury

Skin Irritation (rabbit) – Slight

Sensitization (guinea pig) – Non-sensitizer

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known.

CARCINOGEN STATUS:

OSHA – Not listed

NTP – Not listed

IARC – Not listed

MUTAGENIC DATA: No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

ADDITIONAL DATA: Not known to exhibit reproductive or teratogenic (birth defect) effects.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL SUMMARY: This pesticide is toxic to some plants at very low concentrations. Non-target plants may be adversely affected if pesticide is allowed to drift from areas of application. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Picloram is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

FISH TOXICITY: (Picloram acid)

96 hour LC₅₀, Rainbow trout > 100 mg/L

96 hour LC₅₀, Bluegill > 100 mg/L

AVIAN TOXICITY: (Picloram acid)

Oral LC₅₀, Bobwhite quail > 10,000 mg/Kg

Oral LC₅₀, Mallard duck > 10,000 mg/Kg

BEE TOXICITY: (Picloram acid) – Non-toxic

13. DISPOSAL CONSIDERATIONS:

Do not contaminate water, food or feed by storage or disposal.

WASTE: Pesticide wastes are toxic. Dispose of in accordance with applicable Federal, state and local laws and regulations at an approved facility.

CONTAINER:

Metal Container Disposal: Do not reuse container. Triple rinse (or equivalent). Then offer for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Container Disposal: Do not reuse container. Triple rinse (or equivalent). Then offer for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION:**DOT SHIPPING DESCRIPTION:**

2 x 2.5 gallon – Not regulated
30 gallon & bulk – Not regulated

DOT HAZARD CLASS:**UN NUMBER:****DOT PACKING GROUP:****DOT PRIMARY/SECONDARY LABEL:****DOT PRIMARY/SECONDARY PLACARD:****DOT EMERGENCY RESPONSE GUIDE #:****15. REGULATORY INFORMATION:**

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III STATUS:

311/312 Hazard Categories – Immediate & Delayed
Health Hazard

313 Toxic Chemicals – None known

16. OTHER INFORMATION:

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REVISED DATE: January, 2006

REFERENCE: Initial draft