



MATERIAL SAFETY DATA SHEET

PRODUCT: Trooper Herbicide	Infosafe No: NU0FW ISSUED: Jun 02
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HEALTH HAZARD INFORMATION

ACUTE EFFECTS

SWALLOWED:

The concentrate is considered harmful if swallowed, when classified according to the Worksafe Criteria.

The spray solution is not considered a significant hazard due to the relatively low toxicity of the diluted product.

EYE:

The concentrate may cause severe irritation and probable damage if contact with the concentrate is prolonged.

SKIN:

The concentrate may cause irritation and possible damage if contact is prolonged or excessive.

INHALED:

Not considered a serious hazard because MCPA and picloram salts are practically non-volatile; however, inhalation of spray mists should be avoided.

CHRONIC EFFECTS

Liver and kidney damage has been noted in laboratory animals but only after excessive doses.

OTHER HEALTH HAZARD INFORMATION

Acute Over Exposure: Headache, nausea and vomiting with possible twitches and spasms in extreme cases.

FIRST AID

SWALLOWED:

If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

The above first aid instructions are mandated by the Commonwealth Department of Health and Aged Care via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 50ml for an adult person) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person.

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EYE:

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.

SKIN:

Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.

INHALED:

Remove victim to fresh air until recovered.

FIRST AID FACILITIES:

If poisoning occurs, contact a doctor or Poisons Information Centre 13 1126.

ADVICE TO DOCTOR:

Treat symptomatically.

TOXICITY DATA:

MPCA:

MCPA is considered to be of moderate toxicity to man. There have been very few reported acute toxic effects on users over many years. Several deaths have been recorded, but all of these have been deliberate suicide, generally using the sodium salt.

Toxicity to mammals:

Acute oral LD50 (rats): 700 - 1160mg/Kg
Acute percutaneous LD50 for rats >4000 mg/Kg

Toxicity to fish:

Threshold value in (perch): 200mg/l
(roach): 215mg/l (3-4 days)
LC50 (rainbow trout): 232mg/l (96 hours)

Toxicity to bees: Not considered toxic to bees

The Australian Acceptable Daily Intake(ADI) of MCPA for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept.of Health and Ageing, TGA, "ADI List", December 2001).

PICLORAM

Toxicity to mammals:

Acute oral LD50 (rats) >5000 mg/kg
Acute percutaneous LD50 (rabbits) >2000 mg/kg
Moderate eye irritant; mild skin irritant (rabbits). No skin sensitisation.
Inhalation LC50 (rats) >0.035 mg/l

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TOXICITY DATA: - (continued)

Toxicity to birds:

Acute oral LD50 (bobwhite quail, mallard duck) >5000 mg/kg

Toxicity to fish:

LC50 (96hr) (rainbow trout) 5.5 mg/l

LC 50 (daphnia) 34.4 mg/l

Toxicity to bees:

LD50 >100 ug/bee

The Australian Acceptable Daily Intake (ADI) of picloram for a human is 0.07 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 7 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, TGA, "ADI List", December 2001).

..... **PRECAUTIONS FOR USE**

EXPOSURE STANDARDS:

A time weighted average (TWA) has been established for picloram, present in significant quantities in this product. This value is 10mg/m3.

The corresponding STEL level is "not set". The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

ENGINEERING CONTROLS:

No special ventilation required. When working with the concentrate in confined spaces, it is recommended that forced ventilation be used to remove traces of dimethylamine vapour from the working atmosphere.

PERSONAL PROTECTION:

Harmful if swallowed. The concentrate can irritate eyes and skin. Avoid contact with eyes and skin. Wash concentrate from skin and eyes immediately. When preparing product for use wear cotton overalls, buttoned to the neck and wrist and washable hat, elbow length PVC gloves and goggles. Avoid working in and breathing spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash contaminated clothing, gloves and other safety equipment. Obtain an emergency supply of Ipecac Syrup (APF).



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FLAMMABILITY:

Non flammable.

ENVIRONMENT:

DO NOT contaminate streams, rivers or waterways with the chemical or used container.

The breakdown of picloram in soil is variable and is influenced by soil moisture, temperature and organic content. Under spill conditions or very high use rates, residues could remain in the soil for up to four years, particularly in arid soils. At low application rates, under warm, moist conditions, residues decline sufficiently to allow growth of susceptible plants within 12 months. In soil, picloram is degraded by photodegradation and microbial action. In water, it is degraded by ultra-violet light with a half-life of one to forty days depending on sunlight intensity. Picloram typically remains in the top thirty centimetres of a soil profile depending on soil adsorption properties.

In soil, MCPA is rapidly broken down by microbial action. The rate of breakdown will depend on the soil moisture, temperature and microbial activity. MCPA may decompose within one month in moist soils, but may persist up to six months in dry soils.

Contamination of ground water by picloram and MCPA is highly unlikely.

If used according to the label directions this product will not be harmful to the environment.

***** **SAFE HANDLING INFORMATION** *****

STORAGE AND TRANSPORT:

STORAGE:

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Do not store near food, feedstuffs, fertilisers or seeds.

TRANSPORT:

Considered non hazardous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packaging and Labelling:

CAUTION

Keep out of reach of children
Read safety directions before opening or using
The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as hazardous:

Risk Phrases:

R22 - Harmful if swallowed.



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Packaging and Labelling: - (continued)

Safety Phrases:

- S2 - Keep out of reach of children.
- S13 - Keep away from food, drink and animal feeding stuffs.
- S25 - Avoid contact with eyes.

SPILLS AND DISPOSAL:

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Collect in sealed open top containers for disposal. Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

FIRE/EXPLOSION HAZARD:

May emit toxic fumes of hydrogen chloride or phosgene, and nitrogen oxides if material is involved in fires or subjected to extreme heat. Breathable air apparatus may have to be worn if material is involved in fires in confined spaces. Keep upwind. No specific extinguishing media applicable; if material is involved in fires, cool drums with water supply.

Reactivity Data:

May react with strong oxidising material such as chlorine. The addition of strong acids will precipitate MCPA and picloram acids as a solid. This will reduce the efficiency of the herbicide and cause blockages of the spray equipment. This product will not polymerise.

OTHER INFORMATION

User Data:
WSA Haz? :Y

Contact Point:
Normal Hours: Mr. Volker Maier Phone: (03) 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498