



SECTION 1 - IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name Ionix 250 EC Herbicide
Company Name Kenso Corporation (M) Sdn Bhd

Address 2 Bond Crescent, Forrest Hill, Auckland 0620 New Zealand

Telephone 0800 536 766

Hazardous Substances

Emergency Telephone 0800 CHEMCALL (0800 243 622) (24 hours) National Poisons Centre 0800 POISON (0800 764 766) (24 hours)

Use For the control of certain broadleaf weeds in onions, garlic and fine turf grass.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Pictograms







GHS Signal Word Hazard Classification **WARNING**

Flammable liquid Category 4, Acute oral toxicity Category 4, Acute dermal toxicity Category 4, Eye irritation Category 2, Skin sensitisation Category 1, Reproductive toxicity Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to terrestrial verterbrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment

chronic Category 1

Hazard Statement H227: Combustible liquid.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H361: Suspected of damaging fertility or the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Prevention P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash contacted areas thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out if the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

Response P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician

if you feel unwell.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P321: Specific treatment (see FIRST AID on this label).

P330: Rinse mouth.

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P370 + P378: In case of fire: Use water to extinguish.

P391: Collect spillage.

Storage P403: Store in a well-ventilated place.

P405: Store locked up.





Disposal P501: Dispose of contents/container as specified on the registered label.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

IngredientsCAS NoProportionIoxynil (as octanoate)3861-47-025% w/vHydrocarbon liquid64742-94-562.1% w/vInert ingredientssecretTo 100% w/v

SECTION 4 – FIRST AID MEASURES

Ingestion If swallowed, do not induce vomiting, seek medical advice immediately.

Eye Flush eyes immediately with plenty of fresh water for at least 15 minutes while

holding the eyelids open. Remove contact lenses if worn. However, if irritation

persists, seek immediate medical advice.

Skin Remove contaminated clothing, wash skin with plenty of soap and water. Seek

immediate medical advice if any signs or symptoms described in this document occur. Wash and decontaminate contaminated PPE/clothing before re-

wearing.

Inhalation Remove to fresh air until recovered. See a doctor if discomfort or irritation

continues.

Advice to Doctor Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard Flammable.

HAZCHEM Code 3Z IER Guide No 47

Extinguishing Media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Fire Fighting Instructions During a fire, toxic fumes may be emitted. Wear self-contained breathing

apparatus. Contain runoff.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions For appropriate personal protective equipment (PPE), refer to section 8.

Spillage

Stop leak if safe to do so, and contain spill. Absorb spilt material with absorbent, non-organic materials such as sand, clays or soils. Sweep contaminated material up and shovel or collect recoverable material into labelled, sealable containers for recycling or salvage, and dispose of promptly. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise local regional council and emergency services immediately. Ensure appropriate disposal by consulting with local and/or regional authorities prior to disposal.

Thoroughly launder or dispose of contaminated protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry. Do not dispose of undiluted concentrates on

site.

Environmental Concentrate, solutions and washings must be prevented from entering surface

Precautions water, drains or waterways.

SECTION 7 – HANDLING AND STORAGE

Storage Keep out of reach of children. Store in original container, tightly closed, away

from human and animal foodstuffs, medicines and remedies, seeds and fertilisers. Segregate from incompatible hazardous substances (Classes 1, 4 & 5). Store in a cool, dry, well ventilated place and protect from sunlight. Avoid

temperatures below -5°C or above 35°C

Handling When mixing, applying or when likely to have any exposure to concentrate,

mixes or mists/vapours suitable **chemical resistant** clothing must be worn including; coveralls, face shield, respiratory protection (organic vapour minimum specification) gauntlet gloves and boots/footwear. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or

smokina.

Handler Competence Persons responsible for the storage, handling, mixing, applying or disposing of

SAFETY DATA SHEET



this product must either be a Certified Handler, or be trained, experienced or supervised in accordance with the requirements of the Health and Safety at Work (Hazardous Substances) Regulations 2017 part 4.5 & 4.6 and the Hazardous Substances (Hazardous Property Controls) Notice 2017 Part 4

Subpart C.

Record Keeping

Keep records of use.

Additional Requirements

All aspects of storage, handling, use, disposal and record keeping must be in accordance with NZS 8409:2021 'Management of Agrichemicals', and relevant

local and regional council plans.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Workplace Exposure

loxynil octanoate

Standards

None established.

Engineering Controls

No special requirements. Product is used outdoors. Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Follow precaution statements on the label and the use and safety directions in Code

of Practice for the Management of agrichemical NZS8409.

Personal Protection

Use only protective equipment bearing the mark of the Standards Association of Australia/ New Zealand. In case of exposure, when mixing, applying or when likely to have any exposure to concentrate, mixes or mists/vapours suitable **chemical resistant** clothing must be worn including; coveralls, face shield, respiratory protection (organic vapour minimum specification) gauntlet gloves and boots/footwear.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid
Colour Clear brown
Odour Aromatic odour

pH 4.8 Flash point (°C) > 93°C

Flammability Limits Auto-ignition temperature >400°C.

Density (at 20°C)
Miscibility

Oxidising properties

Explosive properties

1.074

Miscible

Not oxidising

Not explosive

SECTION 10 – STABILITY AND REACTIVITY

Stability Stable under normal conditions

Incompatibility None known

DecompositionCombustion or thermal decomposition will evolve toxic and irritant vapours.

Products arising from combustion or thermal decomposition may be toxic,

corrosive or flammable.

SECTION 11 – TOXICOLOGICAL INFORMATION

This section describes effects which could occur if this product is not handled in accordance with this data sheet.

Ingestion Not known – no cases of human poisoning known

Eye Irritant Skin Irritant

Inhalation Not known – no cases of human poisoning known

Acute Toxicity (Active Acute Oral LD₅₀ (rats): >602 mg/kg Acute Dermal LD₅₀ (rats): >2000 mg/kg

Acute Inhalation LC₅₀ (rats): >3 mg/l (Technical ioxynil)

Sensitisation Effects Sensitisation from prolonged skin contact.

Mutagenic Effects None
Carcinogenic Effects None





Reproductive Effects
Teratogenic (Birth)

None None

Effects

Systemic Effects

None

SECTION 12 – ECOTOXICITY INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet

The following information is presented in respect of the active ingredient:

Ecotoxic Effects Acute toxicity to Birds

 LD_{50} (Japanese quail) = >677 mg/kg LD_{50} (pheasants) = >1000 mg/kg LD_{50} (mallard ducks) = >1200 mg/kg

Acute toxicity to Fish

 LC_{50} (96 h) (rainbow trout) = 0.043 mg/L LC_{50} (96 h) (bluebill sunfish) = 0.024 mg/L

Growth Inhibition, Algae

 EC_{50} (73 h) (Nacivula pelliculosa) = 0.24 mg/L EC_{50} (73 h) (Scenedesmus subspicatus) = 4.6 mg/L

Toxicity to aquatic Invertebrates EC₅₀ (48 h) (daphnia) = 0.068 mg/L Toxicity to soil dwelling organisms

 LC_{50} (worms) = 60 mg/kg **Toxicity to honey bees** LD_{50} (oral) > 3.27 ug/bee

 LD_{50} (oral) > 3.27 ug/bee LD_{50} (contact) > 200 ug/bee

Environmental Fate Ioxynil octanoate does not bioaccumulate.

 DT_{50} (water) = < 6 days; DT_{50} (soil) = 10 days.

Environmental Exposure

Limit

None established.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product Dispose of this product only by using according to the label, or at an approved

hazardous substance waste receival facility or other approved waste transfer

station/facility.

Container Ensure the container is empty. Triple rinse empty container and add rinsate to

the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise submit to a suitable refuse transfer station or hazardous waste receival facility. DO NOT reuse this container for any

other purpose.

SECTION 14 – TRANSPORT INFORMATION

Dangerous Goods

UN Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(CONTAINS IOXYNIL)

Class 9
Subsidiary Class None
Packaging Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 250 L

SECTION 15 - REGULATORY INFORMATION

HSNO Approval No HSR000525 ACVM Approval No P010127





SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

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Contact Points

Police, Ambulance and Fire Service

National Poisons Information Centre
Hazardous Substances Emergency

0800 POISON (0800 764 766)
0800 Chemcall (0800 243 622)