



Willowood Limited

Material Safety Data Sheet

TREND

HEXAZINONE WG

Herbicide

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Company Identification

Willowood Limited

Hongkong

Tel.: 00852-25713011

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COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
HEXAZINONE	1235-04-2	25
INERT INGREDIENTS	-----	75

HAZARDS IDENTIFICATION

Emergency Overview

DANGER! Corrosive, causes irreversible eye damage.

Harmful if swallowed. Do not get in eyes or on clothing. Wash thoroughly with soap and water after handling

Potential Health Effects Based on animal data, skin contact with Hexazinone may cause skin irritation or rash.

Eye contact with Hexazinone may cause eye irritation with tearing, pain or blurred vision.

Significant skin permeation and systemic toxicity after contact appears unlikely.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

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.

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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 SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have a 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.

Notes to Physicians

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. You may also contact local poison center for emergency medical treatment information.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : 23-25 C (73-77 F)

Method : Closed Cup

Flammable liquid. Vapor forms explosive mixture with air.

Heating can release vapors which can be ignited.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO₂.

Fire Fighting Instructions

Wear self-contained breathing apparatus. Use water spray. Cool tank/container with water spray.

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment.

Use water spray. Control runoff.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)



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NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection.

If dusting occurs, use NIOSH approved respirator protection.

Initial Containment Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

Shovel or sweep up.

HANDLING AND STORAGE

Handling (Personnel)

Do not get on clothing. Do not get in eyes. Avoid breathing vapors or mist. Avoid contact with skin. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Handling (Physical Aspects)

Keep away from heat, sparks and flames.

Storage

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

Do not subject product to temperatures below 32 deg F.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment

Always follow label instructions when using this product.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Shoes plus socks

Protective eyewear

DiSLard 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.



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PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:
Chemical resistant gloves in Category C (such as butyl, rubber, neoprene rubber or nitrile rubber) all greater than or equal to 14 mils.

Coveralls Shoes plus socks

Protective eyewear

Exposure Guidelines

Applicable Exposure Limits

HEXAZINONE

PEL (OSHA) : None Established

TLV (ACGIH) : None Established

AEL * (DuPont) : 10 mg/m³, 8 Hr. TWA

ETHANOL

PEL (OSHA) : 1,000 ppm, 1,900 mg/m³, 8 Hr. TWA

TLV (ACGIH) : 1,000 ppm, 1,880 mg/m³, 8 Hr. TWA, A4

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Vapor Pressure : 33 mm Hg @ 25 C (77 F)

Solubility in Water : Dispersible

Odor : Alcoholic

Form : Granule

Color : Light yellow

Specific Gravity : 0.9776

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Incompatible with strong acids or bases (slowly hydrolyzes).

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Hexazinone

Oral LD50: 1200 mg/kg in rats

(Slightly toxic by ingestion)

Dermal LD50: > 5000 mg/kg in rabbits

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(Slightly toxic by contact)

Inhalation 4 hour LC50: > 5.0 mg/L in rats

(Very low toxicity by inhalation)

Animal testing indicates Hexazinone is a moderate eye irritant and a slight skin irritant. It is not a skin sensitizer in animals.

Repeated skin applications indicated no irritation or systemic activity.

Repeated dosing by ingestion of Hexazinone resulted in weight loss, increased liver weight, alteration in blood chemical measurements, and increased enzyme activity. No evidence of pathological organ damage was observed. Long-term dosing produced decreased weight gain, alterations in hematology, clinical chemistry, and blood enzyme levels, increased liver weight, and pathological liver changes.

Animal data suggest that chronic, excessive dietary exposure to Hexazinone produced a slight increase in mouse liver adenoma incidence. Animal data show developmental effects only at exposure levels producing other toxic effects in the adult animal.

Animal testing indicates Hexazinone does not have reproductive effects. The weight of evidence from a battery of cell culture and laboratory animal tests indicates Hexazinone does not cause genetic toxicity.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

HEXAZINONE

96 hour LC50 - Fathead minnows: 274 mg/L.

96 hour LC50 - Bluegill sunfish: > 370 ppm.

96 hour LC50 - Rainbow trout: > 320 ppm

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact you're the Hazardous Waste representative at the nearest regional office for guidance.

Environmental Hazards

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 wastewaters.

The active ingredient, hexazinone, in this product is known to leach through soil into ground water 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 ground-water contamination.



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Container Disposal

For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Metal Containers (non aerosol): Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by the State and local authorities.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO

Proper Shipping Name : ETHANOL SOLUTION

Hazard Class : 3

UN No. : UN 1170

Special Information : FLASH POINT: 23 deg C (74 deg F)

Packing Group : III

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes

Chronic : No

Fire : Yes

Reactivity : No

Pressure : No

OTHER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operations mentioned are beyond our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Willowood disclaims any liability for loss or damage resulting from the use of these data, information or suggestions.