

FARM-AG INTERNATIONAL (Pty) Ltd

P.O. Box 1523, Durban 4000

Head Office : 61 Marshall Dr., Old Mill Industrial Park, Mount Edgecombe South Africa

Registration Number: 2005/011761/07

Tel + 27 31 003 3486 • Fax + 27 31 502 5825

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	RANSOM 240 SL
Creation Date:	September 2013
Revision Date:	March 2021
Product:	Hexazinone 240g/l
Active Ingredient:	Hexazinone, 240g/l
Chemical Name:	(3 -cyclohexyl- 6- (dimethylamino) -1 - methyl 1,3,5 – triazine - 2,4 (1h,3h) - dione)
CAS No:	51235-04-2
Chemical Family:	Triazinones
Chemical Formula:	C ₉ H ₁₀ C ₁₂ N ₂ O
Use:	The control of various annual grasses and broadleaf weeds in Sugarcane.
24 Hr Emergency Number:	082 771 2712
In case of poisoning:	
Poison Information Centre:	082 446 8946
Tygerberg Hospital:	(021) 931 6129
Poison Emergency Enquiries	(021) 689 5227
In case of Spillage:	
HAZMAT:	0800 147 112

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Material	CAS Number	%
Hexazinone	51235-04-2	25
Inert ingredients (Includes the following)		75
Ethanol	64-17-5	40-45

SECTION 3 - HAZARD 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 Ransom 240 may cause skin irritation with discomfort or rash. Eye contact with Ransom 240 may cause eye irritation with tearing, pain or blurred vision. Ingestion of Ransom 240 may cause abnormal liver function as detected by laboratory tests. Significant skin permeation and systemic toxicity after contact appears unlikely. Increased susceptibility to the effects of excessive exposures to Ransom 240 may be observed in persons with pre-existing diseases of the liver.

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.

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS**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 centre or doctor for treatment advice.

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

IF SWALLOWED: Call poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: No specific intervention is indicated, as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

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 centre or doctor, or going for treatment.

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SECTION 5 - FIRE-FIGHTING MEASURES

Flammable Properties

Flash Point: 23-25°C (73-77°F)

Method: Closed Cup

Flammable liquid. Vapour forms explosive mixture with air. Heating can release vapours 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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Safeguards (Personnel)

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

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.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling (Personnel)

Do not get on clothing. Do not get in eyes. Avoid breathing vapours 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 0°C.

SECTION 8 - EXPOSURE CONTROL/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

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.

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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 - waterproof.

Coveralls

Shoes plus socks

Protective eyewear

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Vapour Pressure : 33 mm Hg @ 25°C (77F)**Solubility in Water :** Dispersible**Odour :** Alcoholic**Form :** Liquid**Colour :** Green / Brown**Specific Gravity :** 0.9776**pH:** 8.5 - 9

SECTION 10 - 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.

SECTION 11 - TOXICOLOGICAL INFORMATION

Animal Data

Ransom 240

Oral LD₅₀: 7 042 mg/kg in rats (Slightly toxic by ingestion)Dermal LD₅₀: 21 992 mg/kg in rabbits (Slightly toxic by contact)Inhalation 4 hour LC₅₀: > 7,48 mg/L in rats (Very low toxicity by inhalation)

Ransom 240 is a severe eye irritant and a mild skin irritant. It is not a skin sensitizer in animals.

Repeated skin applications indicated no irritation or systemic activity. Repeated dosing by ingestion of Ransom 240 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 Ransom 240 produced a slight, nonstatistical increase in mouse liver adenoma incidence and an increased incidence of liver foci. Animal data show developmental effects only at exposure levels producing other toxic effects in the adult animal. Animal testing indicates Ransom 240 does not have reproductive effects. The weight of evidence from a battery of cell culture and laboratory animal tests indicates Ransom 240 does not cause genetic toxicity.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

Ransom 240

96 hour LC₅₀ - Fathead minnows: 274 mg/L.96 hour LC₅₀ - Bluegill sunfish: > 370 ppm.96 hour LC₅₀ - Rainbow trout: > 320 ppm.

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AVIAN TOXICITY:LD₅₀ - Bobwhite quail: 2258 mg/kg**SECTION 13 - DISPOSAL CONSIDERATION****Waste Disposal**

Treatment, storage, transportation, and disposal must be in accordance with applicable 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 Environmental law. If these wastes cannot be disposed of by use according to label instructions, contact your Supplier, Pesticide or Environmental Control Agency.

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 waste waters.

The active ingredient, hexazinone, 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.

Container Disposal

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate

14. TRANSPORT INFORMATION

Shipping Information

DOT/IMO

Proper Shipping Name: ETHANOL SOLUTION

Hazard Class: 3

UN No. : UN 1170

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

Packing Group: III

15. REGULATORY INFORMATION

NFPA, NPCA-HMIS

NFPA Rating

Health : 2

Flammability : 3

Reactivity : 0

NPCA-HMIS Rating

Health : 2

Flammability : 3

Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

16. OTHER INFORMATION

All the information and instructions provided in this Material Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. No responsibility will be accepted for errors or omissions or the consequence thereof. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons in receipt of this MSDS to ensure that all people who may use, handle, dispose or in any way come into contact with the product understands this information.