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Infosafe No™ 3NU72 ISSUED by NUFARM Issue Date : August 2020

Product Name MAKO HERBICIDE

Classified as hazardous

1. Identification

GHS Product

MAKO HERBICIDE

Identifier

4114 **Product Code**

Product Type Group B Herbicide

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780) Company Name

103-105 Pipe Road Laverton North Address

Telephone/Fax

Tel: +61 3 9282-1000

Victoria 3026 Australia

Number

Emergency phone

1800 033 498 (24hr Australia)

number

E-mail Address sdsanz@nufarm.com

the chemical and restrictions on use Other Information

Recommended use of For the control of certain annual and perennial grasses and broadleaf weeds in commercial and industrial areas: around agricultural buildings and rights of

way as per the Directions for Use table on the label.

This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of

the product once it has been diluted for application.

2. Hazard Identification

ED1 Eye Damage/Irritation: Category 1 GHS classification of

SC-2 Skin Corrosion/Irritation: Category 2 the

AA1 Hazardous to the Aquatic Environment - Acute Hazard: Category 1 substance/mixture

AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

Signal Word (s)

Hazard Statement (s) H318 Causes serious eye damage.

H315 Causes skin irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement - General P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Pictogram (s) Corrosion, Environment,

The below pictograms are GHS Hazard symbols for workplace use only.

See SECTION 14 for Dangerous Goods information.





P280 Wear protective gloves, clothing, eye and face protection. **Precautionary** P264 Wash hands and exposed skin thoroughly after handling. statement -

Prevention

Precautionary statement – Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Poisons Schedule S5 Other Information

3. Composition/information on ingredients

Ingredients Name CAS Proportion





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Ingredients	Name	CAS	Proportion
	Sulfometuron methyl Other ingredients (non-hazardous)	74222-97-2	750 g/kg 10-30 %
	Anionic surfactant Kaolin clay	N/A 1332-58-7	0-10 % 0-10 %

4. First-aid measures

Remove affected person to fresh air until recovered. If symptoms develop or Inhalation

persist, seek medical advice.

Rinse mouth and then drink plenty of water. Ingestion

If vomiting occurs, give more water to drink to assist dilution.

Do not give anything by mouth to a semi-conscious or unconscious person.

Skin Wash affected areas thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

If in eyes, hold eyelids open and wash with copious amounts of water for at Eye contact

least 15 minutes.

Seek medical advice if irritation develops or persists.

If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 $\,$ 11 $\,$ 26. First Aid Facilities

Treat symptomatically. Advice to Doctor

5. Fire-fighting measures

Suitable extinguishing media If involved in a fire, the product will not burn. Choose extinguishing media

to suit the burning material.

Special Protective Equipment for fire Breathable air apparatus must be worn when fighting a fire in which this

product is involved.

fighters

STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. Other Information

6. Accidental release measures

Spills & Disposal Recover the product by sweeping up or vacuuming without raising dust.

Collect spilled material and waste in sealable open-top type containers for

disposal.

For appropriate personal protective equipment (PPE), refer Section 8. **Personal Protection**

7. Handling and storage

Precautions for Safe Handling

Avoid generating dusts while handling the product and mixing.

Conditions for safe

Store in the closed, original container in a dry, well ventilated area, as cool as possible.

storage, including any incompatibilities

Do not store for prolonged periods in direct sunlight.

Equipment that has been used for this chemical should not be used for the Other Information

application of other materials to sensitive plants, unless it has been washed

with chlorine bleach solution as directed on the label.

Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational Name exposure limit values

TWA STEL

Kaolin clay

mg/m3 mg/m3 Footnote ppmppm

10

Handle in well ventilated areas, generally natural ventilation is adequate.

Appropriate engineering controls **Personal Protective**

Equipment

When opening the container, preparing product for use and using the prepared

product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistent gloves, goggles and a half face

piece respirator.





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After use and before eating, drinking or smoking, wash hands, arms and face **Hygiene Measures**

thoroughly with soap and water.

After each day's use, wash contaminated clothing and safety equipment.

Requirements

Concerning Special

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

Training

9. Physical and chemical properties

Form

Off-white granules **Appearance** Disperses in water. Solubility in Water

7.3 x 10-11 mPa (25° C, sulfometuron methyl) Vapour Pressure

Partition Coefficient: Kow Log P is 1.18 (pH5); -0.51 (pH7)

n-octanol/water

Non combustible material **Flammability**

Handling large quantities of this product, associated with industrial

processing, may be a dust explosion hazard.

Other Information pKa is 5.2

10. Stability and reactivity

Chemical Stability Stable under normal conditions.

Hydrolyses at pH <7.

Possibility of

Keep away from strong oxidising agents.

hazardous reactions

Hazardous polymerisation is not possible. Hazardous

Polymerization

11. Toxicological Information

Acute Toxicity - Oral LD50 (rat) >5000 mg/kg for sulfometuron-methyl

LD50 (rabbit) >2000 mg/kg for sulfometuron-methyl **Acute Toxicity -**

Dermal

LC50 (rat) (4hr) >11 mg/l for sulfometuron-methyl Acute Toxicity -

Inhalation

Low toxicity. Ingestion

However, swallowing large amounts of concentrate may cause nausea and

vomiting.

Inhalation Not a likely route of exposure when handling the concentrate.

May cause irritation to mucous membranes.

May irritate the skin. Skin A severe eye irritant. Eye

Skin Sensitisation Product is not a skin sensitiser.

Reproductive **Toxicity**

Skin

No such effects have been observed in the absence of maternal toxicity.

Chronic Effects

Based on available data, repeated exposures are not anticipated to cause

additional significant adverse effects. This product is a severe eye irritant.

Serious eye damage/irritation

Moderate skin irritant.

corrosion/irritation

The Australian Acceptable Daily Intake (ADI) for sulfometuron-methyl for a Other Information

> human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2.5 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: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', December 2014).





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12. Ecological information

Persistence and degradability

Half life in soil is typically 28 days.

Environmental Protection

Spray drift can cause damage, read the label for more information.

Do NOT apply, drain or flush equipment on or near desirable trees or other plants, or on an area where their roots extend, or in locations where the

chemical may be washed or moved into contact with their roots.

Do NOT contaminate any body of water by spraying, cleaning of equipment, disposal of waste, including chemical or used containers, or run-off from treated areas. If accidental contamination does occur, the water must not be

used for irrigation. Marine pollutant.

Acute Toxicity - Fish

LC50 (96hr) for rainbow trout and bluegill sunfish is >12.5 mg/l for

sulfometuron-methyl

Acute Toxicity -

LC50 >12.5 ppm

Daphnia

EC50 for algae is 0.0046 mg/l. Acute Toxicity -

Algae

The following data is for the active ingredient, sulfometuron-methyl. Acute Toxicity -Birds: Not toxic to birds. LD50 for mallard ducks is >5000 mg/kg Other Organisms

LD50 for bobwhite quail is >5620 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee.

13. Disposal considerations

Container Disposal

Do not use this container for any other purpose.

Triple or preferably pressure rinse containers before disposal. Add

rinsings to the spray tank.

Do not dispose of undiluted chemicals on site.

If recycling, replace cap and return clean containers to recycler or

designated collection point.

If not recycling, puncture or shred and bury containers in local authority

landfill.

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways,

desirable vegetation and tree roots.

Empty containers and product should not be burnt.

14. Transport information

Storage and **Transport**

UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (contains

sulfometuron methyl) Class 9 PG III MARINE POLLUTANT

ADG Code: Not a dangerous good in packs <500kg (Special Provision AU001) IATA Code: Not restricted for transport when 5kg or less (Special Provision

15. Regulatory information

Poisons Schedule

Packaging &

CATITION

Labelling

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information

This product is registered with the Australian Pesticides and Veterinary

Medicines Authority (APVMA). APVMA product number: 51666.

16. Other Information

Date of preparation

Revised 20/08/2020.

or last revision of SDS

Contact Person/Point Normal Hours: SDS Coordinator Phone: +61 3 9282 1000

Email: SDSANZ@nufarm.com

Product is classified as hazardous under the GHS criteria.

Revisions Highlighted





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...End Of MSDS...

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