



SAFETY DATA SHEET

DropZone

Infosafe No.: 3NV6Q
ISSUED Date : 12/08/2022
ISSUED by: NUFARM AUSTRALIA LIMITED.

1. Identification

GHS Product Identifier

DropZone

Product Code

0479

Product Type

Group I Herbicide

Company name

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address

103-105 Pipe Road Laverton North
Victoria 3026 Australia

Telephone/Fax Number

Tel: +61 3 9282-1000

Emergency phone number

1800 033 498 (24hr Australia)

Emergency Contact Name

www.nufarm.com.au

E-mail Address

SDSANZ@nufarm.com

Recommended use of the chemical and restrictions on use

For the control of broadleaf weeds in situations as per directions for use on the label with a range of benefits including: spray droplet optimisation to enhance coverage, improve retention and reduce the risk of spray drift; increased speed of action and final weed control; low odour and non-volatile.

THIS IS A PHENOXY HERBICIDE THAT CAN CAUSE SEVERE DAMAGE TO NATIVE VEGETATION AND SUSCEPTIBLE CROPS SUCH AS COTTON, GRAPES, TOMATOES, OILSEED CROPS AND ORNAMENTALS.

Disclaimer

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

GHS classification of the substance/mixture

ED1 Eye Damage/Irritation: Category 1
OT4 Acute Toxicity - Oral: Category 4
SS-1 Sensitization - Skin: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H318 Causes serious eye damage.
H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

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, Exclamation mark,

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

See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention

P280 Wear protective gloves, clothing, eye and face protection.

P264 Wash hands and exposed skin thoroughly after handling.

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

P261 Avoid breathing spray.

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

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.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

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

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

P363 Wash contaminated clothing before reuse.

Other Information

Poisons Schedule S6

3. Composition/information on ingredients

Ingredients

Name	CAS	Proportion
2,4-D present as dimethylamine and monomethylamine salts	94-75-7	500 g/L
Water		10-30 %

4. First-aid measures

Inhalation

Remove affected person to fresh air until recovered.

If symptoms develop or persist, seek medical advice immediately.

Ingestion

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

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 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Skin

If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.

Remove contaminated clothing and launder before re-use.

Eye contact

If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

First Aid Facilities

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

Advice to Doctor

Treat symptomatically.

No specific antidote.

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.

Hazards from Combustion Products

Non-combustible.

May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.

Special Protective Equipment for fire fighters

Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Other Information

STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).

Collect in sealed open top containers for disposal.

On-site disposal of concentrate is not acceptable.

Dispose of at a landfill in accordance with local regulations.

Personal Protection

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

Clean-up Methods - Large Spillages

Place damaged containers in recovery bins (if available) and return to manufacturer.

Environmental Precautions

This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

Prevent from entering drains, waterways or sewers.

Use earthen bunds or absorbent bunding to prevent spreading of spillage.

7. Handling and storage

Precautions for Safe Handling

Do NOT spray in high winds.

Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.

No special precautions are necessary when handling sealed containers.

For personal protective equipment (PPE) and hygiene advice, refer Section 8.

Conditions for safe storage, including any incompatibilities

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 oxidisers.

Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

Tank Cleaning

See label for detailed information on cleaning of spray equipment.

Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot soapy water or 1% solution of ammonia, followed by several clear water rinses.

Other Information

Do not use on or in situations where damage to susceptible crops or plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop plants may result from direct application or drift.

Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values

No exposure standard for this product has been set, however, an exposure standard has been set for 2,4-D acid (solid) at 10 mg/m³.

Appropriate engineering controls

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

Respiratory Protection

Do not inhale spray mist.

Personal Protective Equipment

When preparing spray, wear PVC or rubber apron, elbow length PVC gloves and face shield.

When using the prepared spray, wear face shield.

Re-entry period: Do not enter treated area until spray has dried.

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 resistant gloves and goggles.

Hygiene Measures

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 and safety equipment.

Requirements Concerning Special Training

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.

9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Clear, brown liquid.
Odour	Negligible amine odour.	Melting Point	<0°C
Boiling Point	100°C	Solubility in Water	Soluble in water.
Specific Gravity	1.146	pH	6.8 (1% solution)
Vapour Pressure	2,4-D is non-volatile	Volatile Component	20% (water) Product may release dimethylamine and monomethylamine vapours.
Flammability	Non combustible material.		

Other Information

pKa is 2.73 for 2,4-D

10. Stability and reactivity

Chemical Stability

Stable under normal conditions.

Incompatible materials

Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D acid and largely de-activate the product and cause blockages in spray equipment.

The addition of a strong alkali such as caustic soda will cause release of dimethylamine and monomethylamine vapour.

Hazardous Polymerization

Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral

The following data is for a similar product:

LD50 (rat) greater than 300 mg/kg and less than 2000 mg/kg

Acute Toxicity - Inhalation

LC50 (rat) (4hr) >5.15 mg/l (aerosol)

Acute Toxicity - Dermal

LD50 (rabbit) >2000 mg/kg

Ingestion

Ingestion of the product in large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.

Inhalation

Inhaling large quantities of spray may irritate the respiratory tract.

Skin

Prolonged contact with the concentrate may cause irritation.

Eye

The concentrate will cause severe irritation of the eyes.

Skin corrosion/irritation

Mild irritant.

Serious eye damage/irritation

The product is a severe eye irritant.

Skin Sensitisation

The product is a skin sensitiser.

Chronic Effects

Chronic Overexposure: Repeated absorption of relatively large amounts of 2,4-D presents a risk to the liver and kidneys.

Other Information

The Australian Acceptable Daily Intake (ADI) for 2,4-D for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.0 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, Office of Chemical Safety, "ADI List", March 2022).

12. Ecological information

Persistence and degradability

Half life in soil is typically 7 days.

Loss from soil is principally by microbial degradation.

Mobility

Rapid degradation in soil prevents significant downward movement under normal conditions.

Known Harmful Effects on the Environment

2,4-D products do not appear to pose any threat to birds.

2,4-D products do not appear to pose any threat to fish or other aquatic organisms other than in very high concentrations.

Other Precautions

Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

Environmental Protection

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

Acute Toxicity - Fish

LC50 (96hr) for rainbow trout is ~100 mg/l.

Acute Toxicity - Daphnia

LC50 (48hr) for 2,4-D amines is 184 mg/l.

Acute Toxicity - Other Organisms

Birds: Not toxic to birds. LD50 for bobwhite quail is 500 mg/kg

Bees: Not toxic to bees. LD50 94 µg/bee.

Sewage Treatment

Not inhibitory in sewage system, 2,4-D is rapidly biodegraded.

13. Disposal considerations

Product Disposal

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

DO NOT dispose of undiluted chemicals on site.

Container Disposal

Do not use this container for any other purpose.

DO NOT burn empty containers or product.

14. Transport information

Transport Information

It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

Storage and Transport

Not classified as a Dangerous Good for transport by road and rail (ADG 7.7), by sea (IMDG) or by air (IATA).

15. Regulatory information

Regulatory information

Australia: WHS regulations (2011) - Schedule 11: classification not listed.

Poisons Schedule

S6

Packaging & Labelling

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information

APVMA product number: 91596.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

16. Other Information

Date of preparation or last revision of SDS

04 May 2022

Contact Person/Point

Normal Hours: SDS Coordinator Phone: +61 3 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

User Codes

User Title Label	User Codes
Field 4	Y

Revisions Highlighted

First Issue

END OF SDS

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