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Infosafe No™ 3NUA0 Issue Date : September 2020 ISSUED by NUFARMNZ

Product Name AVADEX® XTRA

1. Identification

GHS Product

AVADEX® XTRA

Identifier

00095 **Product Code** Herbicide **Product Type** Nufarm NZ **Company Name**

Address

6 Manu Street, Otahuhu Auckland 2024 New Zealand

Telephone/Fax Number

Tel: 0-9-270 4150

Emergency phone

0800 651 911

number

nzinfo@nufarm.com E-mail Address

Recommended use of the chemical and restrictions on use

Selective herbicide for the pre-emergence control of wild oats in barley,

wheat, peas and linseed.

Other Information

This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be

much less severe.

2. Hazard Identification

GHS classification of DANGEROUS GOODS.

substance/mixture

6.1E acute toxicant,6.3A skin irritant, 6.4A eye irritant,6.5B sensitiser, Other Information

9.1A aquatic toxicant, 9.2A soil toxicant.

Harmful-may be harmful if swallowed, inhaled or absorbed through the skin, may cause skin and eye irritation. May cause sensitisation from prolonged skin

contact. ECOTOXIC

Very toxic to aquatic organisms. Very toxic to soil environment.

Selective herbicide-very toxic to some plant species.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion	
	Tri-allate	2303-17-5	500 g/L	
	Aromatic hydrocarbon solvent	64742-94-5	30-60 %	
	Proprietary surfactants		0-10 %	

4. First-aid measures

Remove patient to fresh air. Lay down and keep warm and rested. If breathing Inhalation

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Never give anything by mouth to an unconscious person. If swallowed do NOT Ingestion

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Skin Immediately flush body and clothes with large amounts of water. Remove

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Flush eyes with plenty of water for 15 minutes holding eyelids open if Eye contact

necessary. Remove contact lenses if present and easy to do. Seek medical

assistance.





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Facilities storing or utilizing this material should be equipped with an First Aid Facilities

eyewash facility and safety shower.

Treat symptomatically. Advice to Doctor

If vomiting and aspiration occurs solvent present may cause pulmonary In case of ingestion, gastric lavage may be indicated. pneumonitis.

5. Fire-fighting measures

Water fog, foam, carbon dioxide or dry chemical.

extinguishing media

May emit toxic fumes of hydrogen chloride, oxides of sulphur and other Hazards from Combustion compounds of chlorine or sulphur if involved in fires or exposed to extreme

Full protective clothing and self-contained breathing apparatus.

Products

Special Protective

Equipment for fire

fighters

Specific Methods Keep up wind. Do not allow washings to reach sewage or effluent systems.

Specific hazards arising from the Concentrate is combustible and will burn if sufficient heat and oxygen are

available.

chemical

2.7 **Hazchem Code**

Location Certificate: Not applicable Other Information

Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal Wear protective clothing. Clear area of unprotected personnel. Eliminate all

ignition sources and naked lights. Use non-sparking utensils. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable

container for disposal in an approved landfill.

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

Environmental Prevent from entering drains, waterways or sewers.

This product is a herbicide and spills can damage crops, pastures and Precautions

desireable vegetation.

7. Handling and storage

Precautions for Safe

Handling

Avoid skin and eye contact and inhalation of spray mist.

APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner, or used by a commercial

contractor.

TRACKING: Is not required.

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.

Do not allow drift to occur outside the target area.

Conditions for safe storage, including any incompatibilities Keep out of reach of children.

Store in original container tightly closed and in a locked, dry, cool well ventilated area, away from foodstuffs, fertilisers and seeds. Store above 0°C to prevent freezing. Storage must be in accordance with NZS 8409 Management of

Agrichemicals.

Stores containing 100L of AVADEX XTRA require secondary containment and are subject to signage and more than 100L require emergency response plans.

Always read the label and any attached leaflet before use. Other Information

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409

Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

Occupational exposure limit values

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.





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Appropriate engineering controls

Store or handle in a well ventilated area to minimise exposure and build up of

combustible vapours.

Use local mechanical exhaust ventilation at sources of air contamination such

as open process equipment. Do not use, pour, spill or store near heat or

flame.

Personal Protective

Equipment

When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and

wrist, and boots.

Hygiene Measures Do not eat, drink or smoke while using.

Remove protective clothing and wash hands and face thoroughly before meals and

after work. Wash protective clothing daily after work.

9. Physical and chemical properties

Form Liquid

Appearance Amber to brown liquid

Boiling Point 160°C

Solubility in Water Forms an emulsion in water.

Specific Gravity 1.053

pH

Vapour Pressure 16mPa @ 25°C (Tri-allate)

Vapour Density

(Air=1)

> air

Volatile Component 45% (solvent)
Flash Point >62°C (TCC)
Flammability Combustible

Other Information (EC) Emulsifiable concentrate

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Possibility of hazardous reactions Hydrolysed by strong acids and alkalis.

Hazardous

Hazardous polymerisation will not occur.

 ${\bf Polymerization}$

Other Information Freezing will result in crystals, which can settle to the bottom. If allowed

to freeze, place in a warm room (22 degrees C) and roll and shake the can

frequently for several days to redissolve before using.

11. Toxicological Information

Toxicology

Data listed below is for the active ingredient unless otherwise stated.

Information

Acute Toxicity - Oral LD50 (rat) 1100mg/kg.

Acute Toxicity -

LD50(rabbit)percutaneous 8200mg/kg. Practically non-toxic.

Dermal

Acute Toxicity -

LC50(rat)(12hr) >5.3mg/L. Practically non-toxic.

Inhalation Ingestion

Slightly toxic. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Coughing, choking and shortness of breath may occur if material is accidentally drawn into the lungs during swallowing or vomiting. This product contains hydrocarbon solvents and an emulsifier which if swallowed, may result in stomach upset with nausea and vomiting, and central nervous system depression including

headache, dizziness, fatigue, and with more severe exposures, incoordination and unconsciousness.





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Slightly toxic if inhaled. Inhalation of the hydrocarbon solvent vapours may Inhalation

be irritating to the respiratory tract. Prolonged or excessive inhalation of the hydrocarbon solvent vapours in the product may result in central nervous

system (CNS) depression.

May result in slight to moderate irritancy on the skin. Prolonged or repeated Skin

contact with the solvents and emulsifier in this product may cause pain,

redness and dry skin, resulting in contact dermatitis.

May cause pain, redness and tearing. Direct contact or excessive exposure to Eye

the hydrocarbon solvent vapours may result in eye irritation.

Reproductive **Toxicity**

Chronic Effects

No birth defects were noted in rats and rabbits given tri-allate orally during pregnancy, even at amounts which produced toxic effects in the mothers and their offspring. Clinical signs of toxicity, reduced body and pup weights, and effects on some reproductive parameters (second generation only) were

noted when rats were fed tri-allate for two successive generations. Abnormal behavioural effects have been observed in laboratory animals

following single and repeated oral doses of tri-allate. There is no evidence

of delayed neurotoxicity effects in chickens (repeat oral and dermal doses) or

cholinesterase inhibition in rats (single oral doses).

Serious eve

damage/irritation

Slightly irritating (rabbit, 24hr)

Moderately irritating (rabbit)

corrosion/irritation

12. Ecological information

AVADEX XTRA herbicide is moderately toxic to some fish and practically **Ecological**

non-toxic to bees. Information

Tri-allate tends to be strongly adsorbed to soil. Biodegradation in soil is **Environmental Fate**

dependent on temperature, moisture and other factors.

Half life in soil is generally 8-11 weeks.

Bioaccumulative

Tri-allate bioaccummulates in fish, Kow logP = 4.6

Potential

LC50 (96hr) Bluegill sunfish 1.3mg/L **Acute Toxicity - Fish**

LD50 (96hr) Rainbow trout 1.2mg/L LC50 (48hr) Daphnia magna 0.43mg/L

Acute Toxicity -Daphnia

EC50 (96hr) Selenastrum capricornutum **Acute Toxicity -**0.12mg/L

Algae

Acute Toxicity -LD50 (oral) Bobwhite quail 2251mg/kg

LC50 dietary (8 day) Mallard duck >5620pm Other Organisms

13. Disposal considerations

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

Triple rinse empty container and add rinsate to spray tank. Recycle empty **Container Disposal**

Otherwise crush and bury in a suitable landfill.

14. Transport information

It is good practice not to transport agricultural chemical products with **Transport**

food, food related materials and animal feedstuffs. Information

U.N. Number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (tri-allate, 50%) UN proper shipping

name

Transport hazard

class(es) **Hazchem Code** 2Z

Packaging Method Packing Group III





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EPG Number

47 **IERG Number**

IMO Marine

Yes. Marine Pollutant mark required.

Pollutant

F-A, S-F IMDG EMS

Do not carry this product on a passenger service vehicle. Other Information

> Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation.

Refer NZS5433 sea segregation for details.

15. Regulatory information

Registered pursuant to the ACVM Act 1997, No.P9221 National and or See www.foodsafety.govt.nz for registration conditions. International

Approved pursuant to the HSNO Act 1996, Approval Code HSR000571 Regulatory

See www.epa.govt.nz for approval controls. Information

HARMFUL * ECOTOXIC - keep out of reach of children Packaging &

Labelling

Systems

NFPA/HMIS: 2-2-1 **Hazard Rating**

16. Other Information

September 2015 Date of preparation

SDS

or last revision of

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE

24Hr Tollfree Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

5 yearly review carried out. Revisions

Highlighted

Supersedes SDS issued July 2015 Other Information

...End Of MSDS...

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