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Infosafe No™ 3NUA0 Issue Date : October 2024 ISSUED by NUFARMNZ

Product Name AVADEX® XTRA

Section 1 - Identification

AVADEX® XTRA **Product Identifier**

Product Code 0782

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

Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Address

Auckland 1051 New Zealand

Telephone/Fax

Number

Tel: 0-9-270 4150

0800 651 911 **Emergency Phone**

Number

Email

Recommended uses and any restrictions on use or supply

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

wheat, peas and linseed.

This SDS describes, to the best of our knowledge, the properties of the Other Information

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.

Section 2 - Hazard(s) Identification

Aspiration hazard: Category 1 GHS classification of

Skin corrosion/irritation: Category 2 the

Eye irritation Category 2 substance/mixture

Skin sensitization: Category 1

Hazardous to the terrestrial environment: Hazardous to soil organisms

Hazardous to the aquatic environment acute Category 1Hazardous to the aquatic environment chronic Category 1

Signal Word (s) DANGER

Hazard Statement (s) H304 May be fatal if swallowed and enters airways.

H315 causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

H421 Very toxic to the soil environment.

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 carefully and follow all instructions.

Pictogram (s) Health hazard, Environment





P264 Wash hands and face thoroughly after handling. **Precautionary**

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

P273 Avoid release to the environment. Prevention

P280 Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. **Precautionary**

P302+P352 IF ON SKIN: Wash with plenty of water. Statement -

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

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

P331 Do NOT induce vomiting.

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





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

P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage. P405 Store locked up.

Precautionary

Statement - Storage

Precautionary

P501 Dispose of contents/container to an approved landfill.

Statement - Disposal

Section 3 - Composition and Information on Ingredients

Liquid

Characterization

Ingredients Name CAS Proportion

> 2303-17-5 500 a/L Tri-allate Aromatic hydrocarbon 64742-94-5 30-60 %

solvent

0-10 % Proprietary surfactants

Section 4 - First Aid Measures

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

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

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

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

assistance.

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

pneumonitis. In case of ingestion, gastric lavage may be indicated.

Section 5 - Firefighting Measures

Water fog, foam, carbon dioxide or dry chemical. Suitable

Extinguishing Media

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

heat. **Products**

Special protective equipment for

Full protective clothing and self-contained breathing apparatus.

fire-fighters

Keep up wind. **Specific Methods** Do not allow washings to reach sewage or effluent systems. Concentrate is combustible and will burn if sufficient heat and oxygen are

Specific hazards available. arising from the

chemical

27 **Hazchem Code**

Decomposition Temperature

Information is not available.

Location Certificate: Not applicable Other Information

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

Section 6 - Accidental Release Measures





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Spills and 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.

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

Environmental Prevent from entering drains, waterways or sewers.

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

desireable vegetation.

Section 7 - Handling and Storage

Precautions for Safe Handling The person mixing or applying AVADEX XTRA must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified

Loader'. It is the duty of the PCBU that a person who uses, handles,

manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.

Avoid skin and eye contact and inhalation of spray mist. This product must not be applied onto or into water.

CERTIFIED HANDLER: Is not required.

TRACKING: Is not required.

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of AVADEX XTRA is applied within 24 hours. Records must be kept for a minimum of 3 years from

application date.

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.

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

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.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)

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

this product.

Appropriate Engineering

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

combustible vapours.

Controls

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.

Section 9 - Physical and Chemical Properties

Form Liquid

Appearance Amber to brown liquid.

Odour Information is not available.

Decomposition Information is not available.

Temperature





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 $29-30\,^{\circ}\text{C}$ for active ingredient tri-allate. **Melting Point**

160°C **Boiling Point**

Solubility in Water Forms an emulsion in water.

Specific Gravity 1.053

7 рH

Vapour Pressure 16mPa (25°C) for active ingredient tri-allate.

Vapour Density

> air

(Air=1)

Information is not available. **Odour Threshold**

45% (solvent) **Volatile Component**

Partition Coefficient:

Kow logP = 4.6 for active ingredient tri-allate.

n-octanol/water

Flash Point >62°C (TCC) Combustible. Flammability

Information is not available. **Auto-ignition**

Temperature

Information is not available. Flammable Limits -

Lower

Information is not available. Flammable Limits -

Upper

Information is not available. **Kinematic Viscosity** Information is not available. **Particle**

Characteristics

(EC) Emulsifiable concentrate Other Information

Section 10 - Stability and Reactivity

Stable under normal conditions of handling and storage. **Chemical Stability**

Possibility of

Hydrolysed by strong acids and alkalis. **Hazardous Reactions**

Hazardous polymerisation will not occur. Hazardous

Polymerization

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

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

frequently for several days to redissolve before using.

Section 11 - Toxicological Information

LD50(rat) 1100mg/kg for active ingredient tri-allate. **Acute Toxicity - Oral**

Inhalation of saturated air (5.3mg/L) for 12h had no harmful effect on rats Acute Toxicity -

for active ingredient tri-allate. Inhalation

Percutaneous LD50(rabbit) 8200mg/kg for active ingredient tri-allate. Acute Toxicity -

Dermal

Skin This product causes skin irritation.

Corrosion/Irritation

Serious Eye This product causes serious eye irritation.

Damage/Irritation

Skin Sensitisation This product may cause an allergic skin reaction.

Information is not available. Germ Cell

Mutagenicity

Information is not available. Carcinogenicity





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No birth defects were noted in rats and rabbits given tri-allate orally during Reproductive

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.

STOT - Repeated

Information is not available.

Exposure

Toxicity

Aspiration Hazard May be fatal if swallowed and enters airways.

Abnormal behavioural effects have been observed in laboratory animals **Chronic Effects**

> 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).

Section 12 - Ecological Information

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

non-toxic to bees. Information

Persistence and Tri-allate tends to be strongly adsorbed to soil. Biodegradation in soil is **Degradability**

dependent on temperature, moisture and other factors. DT50 (soil) 8-11w for

active ingredient tri-allate.

Tri-allate bioaccummulates in fish, Kow logP = 4.6. Bioaccumulative

Potential

LC50 (96hr) Rainbow trout 1.2mg/L for active ingredient tri-allate. Acute Toxicity - Fish

LC50 (48hr) 0.43mg/L for active ingredient tri-allate. Acute Toxicity -

Daphnia

EC50 (96hr) Selenastrum capricornutum 0.12mg/L for active ingredient Acute Toxicity -

tri-allate. Algae

Birds: LD50 (oral) Bobwhite quail >2251mg/kg for active ingredient tri-allate. **Acute Toxicity -**

Non-toxic to bees for active ingredient tri-allate. Other Organisms

Section 13 - Disposal Considerations

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

landfill.

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

container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

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

food, food related materials and animal feedstuffs. Information

UN Number

Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (tri-allate)

Hazard Class Hazchem Code 2 Z **Packaging Method** III **Packing Group**

EPG Number

IERG Number 47

IMO Marine

Marine Pollutant mark required. Yes.

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.





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Section 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

READ SAFETY DIRECTIONS BEFORE OPENING OR USING Packaging and

KEEP OUT OF REACH OF CHILDREN Labelling

Section 16 - Any Other Relevant Information

Date of preparation or last revision of

September 2020.

SDS

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

Revisions

Various changes and updates made to the document to comply with GHS7.

Highlighted

... End Of MSDS...

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