**Safety Data Sheet**

**Infosafe No™ NU0GX**  
**Issue Date:** October 2021  
**ISSUED by NUFARM**

**Product Name** AVADEX XTRA Selective Herbicide

**Classified as hazardous**

### 1. Identification

**GHS Product Identifier**  
AVADEX XTRA Selective Herbicide

**Product Code**  
0782

**Product Type**  
Group J 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)

**E-mail Address**  
SDSANZ@nufarm.com

**Recommended use of the chemical and restrictions on use**  
For the control of Wild oats in Wheat, Triticale, barley, Chickpeas, Peas, Lupins, Faba beans Linseed, Canola and Safflower and for use in mixtures with TriflurX for control of a range of grass and broadleaf weeds in no-till/min-till cropping systems, pre-sowing or incorporated by sowing (IBS) as per the Directions for Use table on the label.

**Other Information**  
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**  
CA2 Carcinogenicity: Category 2  
AH1 Aspiration Hazard: Category 1  
RE2 STOT Repeated Exposure Category 2  
ED2A Eye Damage/Irritation: Category 2A  
SC3 Skin corrosion/irritation: Category 3  
SS-1 Sensitization - Skin: Category 1  
SE-3NARC STOT Single Exposure Category 3 (narcotic)  
FL4 Flammable Liquids: Category 4  
AC1 Hazardous to the Aquatic Environment – Long-Term Hazard: Category 1

**Signal Word (s)**  
DANGER

**Hazard Statement (s)**  
H351 Suspected of causing cancer.  
H304 May be fatal if swallowed and enters airways.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H319 Causes serious eye irritation.  
H316 Causes mild skin irritation.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H227 Combustible liquid  
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)**  
Exclamation mark, Health hazard, Environment

**Precautionary statement – Prevention**  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash hands and exposed skin thoroughly after handling.  
P284 Wear protective gloves, clothing, eye and face protection.  
P260 Do not breathe mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.
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**Precautionary statement – Response**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P301+P316 IF SWALLOWED: Get emergency medical help immediately.
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317 If eye irritation persists: Get medical help.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P317 If skin irritation or rash occurs: Get medical help.
P362+P364 Take off contaminated clothing and wash it before reuse.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P391 Collect spillage.

**Poisons Schedule S5**

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### 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tri-allate</td>
<td>2303-17-5</td>
<td>520 g/L</td>
</tr>
<tr>
<td></td>
<td>Liquid Hydrocarbon</td>
<td>64742-94-5</td>
<td>470 g/L</td>
</tr>
<tr>
<td></td>
<td>Surfactant</td>
<td></td>
<td>0-10 %</td>
</tr>
</tbody>
</table>

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### 4. First-aid measures

**Inhalation**
Remove affected person to fresh air until recovered.

**Ingestion**
Rinse mouth and then drink plenty of water.
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**
Wash affected areas thoroughly with soap and 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.
Seek medical advice.

**First Aid Facilities**
If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Treat symptomatically.
If vomiting occurs, solvent present may cause pulmonary pneumonitis.

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### 5. Fire-fighting measures

**Suitable extinguishing media**
Water fog, foam, carbon dioxide or dry chemical.

**Hazards from Combustion Products**
May emit toxic fumes of sulphur oxides, hydrochloric acid or phosgene if involved in fires or exposed to extreme heat.

**Special Protective Equipment for firefighters**
Breathable air apparatus must be worn when fighting a fire in which this product is involved.

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

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### 6. Accidental release measures

**Spills & Disposal**
Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).
Collect spilled material and waste in sealable open-top type containers for disposal.
On-site disposal of concentrate is not acceptable.

**Personal Protection**
For appropriate personal protective equipment (PPE), refer Section 8.
Clean-up Methods - Large Spillages
If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas, as possible, before absorbing remaining material into vermiculite or other absorbent. 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.

7. Handling and storage
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.

8. Exposure controls/personal protection
Occupational exposure limit values
No exposure standards have been set for this product or the active ingredients. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m3, 17ppm TWA, as total hydrocarbon.

Hygiene Measures
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
Form
Liquid
Appearance
Amber to brown coloured liquid.
Odour
Typical solvent odour.
Boiling Point
160°C
Solubility in Water
Forms an emulsion in water.
Specific Gravity
1.053
pH
8 - 8.5 (1% solution)
Vapour Pressure
16 mPa @ 25°C for triallate
Partition Coefficient: n-octanol/water
Kow Log P is 4.6
Flash Point
71°C
Flammability
Combustible liquid C1.

10. Stability and reactivity
Chemical Stability
Stable under normal conditions.
Incompatible Materials
Avoid contact of the concentrate with strong acids and bases.
Possibility of hazardous reactions
Keep away from strong oxidising agents.
Hazardous polymerisation is not possible.

11. Toxicological Information

**Acute Toxicity - Oral**
LD50 (rat) >2000 mg/kg for a similar formulation

**Acute Toxicity - Dermal**
LD50 (rat) >5000 mg/kg for a similar formulation

**Acute Toxicity - Inhalation**
LC50 (rat) (4hr) >5.3 mg/l for triallate

Ingestion
Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.

If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.

Inhalation
High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.

Skin
Will irritate the skin.

Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.

May cause sensitisation by prolonged skin contact.

Eye
The concentrate will cause irritation of the eyes.

Skin Sensitisation
Skin sensitizer.

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

Chronic Effects
Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of triallate.

Evidence from animal studies indicate that repeated or prolonged exposure to triallate can result in neurological effects.

The product is an eye irritant.

Serious eye damage/irritation
The product is a skin irritant.

Skin corrosion/irritation
The Australian Acceptable Daily Intake (ADI) for triallate for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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 APVMA, 'ADI List', Edition 3/2021).

12. Ecological information

Persistence and degradability
Under prolonged and extremely dry conditions, this product may persist for several months.

The product is a marine pollutant for sea transport.

Known Harmful Effects on the Environment
Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

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

Acute Toxicity - Fish
The following is data for the active ingredient, triallate.

- LC50 (96hr) for rainbow trout is 1.2 mg/l.
- LC50 (96hr) for bluegill sunfish is 1.3 mg/l.
- EC50 (48hr) for daphnia is 0.43 mg/l for triallate.

Acute Toxicity - Daphnia
LC50 (96 hr) for Selenastrum Capricornutum 0.12 mg/l.

Acute Toxicity - Algae

Acute Toxicity - Other Organisms
Birds: Not toxic to birds. LD50 for bobwhite quail is >2251 mg/kg

Not toxic to bees.
13. Disposal considerations

**Product Disposal**
On site disposal of the concentrated product is not acceptable. 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®).

**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.
- 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.
- drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.
- Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

14. Transport information

**Storage and Transport**
Considered non dangerous for road and rail transport (in packaging not greater than 500 kg(L), including IBCs not greater than 3000 L each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7.7; SP No. AU01. For bulk shipments as Class 9, use UN 3082, HazChem code 3Z.

- **UN Number (Sea Transport)**: 3082
- **IMO Class/Packing Group**: Class 9; Packing Group III
- **IMO Marine Pollutant**: Marine Pollutant
- **IMO Proper Shipping Name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Triallate)

15. Regulatory information

**Regulatory Information**
- **WHS Schedule 11: item 10 - Flammable Liquid category 4**
- **Poisons Schedule**: S5
- **Packaging & Labelling**: CAUTION, 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: 56598.

16. Other Information

**Date of preparation or last revision of SDS**
Revised 26/10/2021.

**Contact Person/Point**
Normal Hours: SDS Coordinator Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498
...End Of MSDS...