



SAFETY DATA SHEET

ASULOX®

Date of Issue: 30 January 2025

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Asulam

Recommended use: Selective herbicide

Supplier: UPL New Zealand Limited
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325
www.upl-ltd.com/nz

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification:



Signal Word: WARNING

GHS Classification:

GHS Classification and Category	Hazard Code	Hazard Statement
Serious eye damage/eye irritation, Cat 2B	H319	Causes serious eye irritation.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Hazardous to aquatic environment, long-term hazard Cat 3	H412	Harmful to aquatic life with long lasting effects.
		Hazardous to soil organisms.

Required identification Details:

PRECAUTIONARY STATEMENTS PREVENTION

P102 - Keep out of the reach of children.
P103 - Read label carefully before use.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing and eye protection.
Avoid contact with eyes.
Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

RESPONSE

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention.

STORAGE

P405 - Store locked up.

Store in a cool dry place avoiding temperatures above 35°C.

DISPOSAL

P501 - **Product disposal:** Dispose of container and unused product in accordance with local regulations.

Use according to the label or dispose of at an approved landfill or other approved facility.

Container disposal: Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery® (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Asulam (present as sodium salt)	3337-71-1	40%
Other non-hazardous ingredients	confidential	60%

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

4. FIRST-AID MEASURES

Description of necessary first aid measures:

General information:

In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. Phone 0800 764 766, (0800 POISON). Have this SDS with you when you call.

First-aid measures

Inhalation:

No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Ingestion:

If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Skin contact:

Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye contact:

No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the

product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses

Notes to a physician:

Most Important Symptoms and Effects:

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	3Z
Fire/Explosion Hazard:	There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.
Extinguishing media:	Not Combustible. Use extinguishing media suited to burning materials.
Hazardous thermal (de)composition products:	This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Protection of fire-fighters:	
Other Information:	If a significant quantity of this product is involved in a fire, call the fire brigade.

6. ACCIDENTAL RELEASE MEASURES

Accidental release:	Minor spills do not normally need any special clean-up measures.
Personal precautions:	As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product.
Environmental precautions:	In the event of a major spill, prevent spillage from entering drains or water courses.
Methods for cleaning up:	Stop leak if safe to do so and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

7. HANDLING AND STORAGE

Handling:	Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
Safe Storage:	Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers of this product in a well-ventilated area. Protect this product from light. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.
Packaging materials:	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Tolerable Exposure limit:

Exposure Standards:

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

Exposure Standards outside the workplace:

Engineering measures

Exposure control measures:

No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that vapours and mists are minimised.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems

Usually, no respirator is necessary when using this product. Safety deluge showers should, if practical, be provided near to where this product is being used.

Skin and body:

We suggest that protective clothing be made from the following: rubber, PVC. The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products.

Hands:

Wear suitable gloves (preferably elbow-length) when skin contact is likely.

Eyes:

Eye protection such as protective glasses or goggles is recommended when this product is being used.

General hygiene:

Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour, etc.):	Clear, light brown coloured liquid.
Odour:	Negligible odour.
Odour threshold:	NA
pH:	7.0 - 8.0
Melting point/freezing point:	Approximately 0°C.
Initial boiling point and boiling range:	Approximately 100°C, at 100kPa
Flash point:	NA
Flammability (solid, gas):	NA
Upper/lower flammability or explosive limits:	NA
Vapour pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour density:	NA
Relative density:	1.205 at 20°C
Bulk density:	NA
Solubility(ies):	Completely soluble in water.
Partition coefficient: n-octanol/water:	No data.
Auto-ignition temperature:	Not applicable - does not burn.
Decomposition temperature:	NA
Kinematic viscosity:	NA
Particle characteristics:	NA

10. STABILITY AND REACTIVITY

Stability:	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf-life properties.
Conditions to avoid:	This product should be kept in a cool place. Keep containers tightly closed. Keep containers and surrounding areas well ventilated. Protect this product from light.
Materials to avoid:	Acids, oxidising agents.
Hazardous Decomposition Products:	This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Water, sodium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Hazardous polymerization:	This product will not undergo polymerisation reactions.
Hazardous Reactions:	
Specific Data:	

11. TOXICOLOGICAL INFORMATION

Asulam -sodium salt:

Acute toxicity – Oral:	LD ₅₀ Oral, Rat >4000mg/kg LD ₅₀ Oral, Mouse = >4000 mg/kg LD ₅₀ Oral, Dog = >4000 mg/kg LD ₅₀ Oral, Rabbit = >4000 mg/kg
Acute toxicity - Dermal:	LD ₅₀ Dermal, Rat = >1200 mg/kg
Acute toxicity – Inhalation:	Short term exposure: Available data indicates that this product is not harmful. However, product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. Long term exposure: No data for health effects associated with long term inhalation.
Skin irritation:	Short term exposure: Available data indicates that this product is not

	harmful. It should present no hazards in normal use. However, product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases. Long Term exposure: No data for health effects associated with long term skin exposure.
Eye irritation:	Causes serious eye irritation. Short term exposure: This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.
Ingestion:	Short term exposure: Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort. Long Term exposure: No data for health effects associated with long term ingestion.
Respiratory or skin Sensitization:	
Germ cell mutagenicity:	
Carcinogenicity:	No significant ingredient is classified as carcinogenic.
Reproductive toxicity:	Suspected of damaging fertility or the unborn child.
Aspiration Hazard:	NA
Specific Target Organ Toxicity (STOT) – single exposure	NA
Specific Target Organ Toxicity (STOT) – repeated exposure	NA

12. ECOLOGICAL INFORMATION

Ecology – general:	Harmful to aquatic life with long lasting effects. Hazardous to soil organisms.
Hazardous to the aquatic environment, short-term (acute):	NA
Classification procedure - Hazardous to the aquatic environment, short-term (acute):	LC ₅₀ rainbow trout: >5000 mg/L LC ₅₀ goldfish: >5000 mg/L LC ₅₀ catfish: >5000 mg/L
Hazardous to the aquatic environment, long-term (chronic):	Harmful to aquatic life with long lasting effects.
Classification procedure - Hazardous to the aquatic environment, long-term (chronic):	NA
Toxicity for terrestrial species:	<u>Birds:</u> LD ₅₀ mallard: >4000 mg/kg LD ₅₀ pheasant: >4000 mg/kg LD ₅₀ pigeon: >4000 mg/kg
Persistence and degradability:	This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.
Bioaccumulative potential:	NA
Partition coefficient n-octanol/water (Log Kow):	NA
Mobility in soil:	NA
Ozone:	NA
Other adverse effects:	NA

13. DISPOSAL CONSIDERATIONS

Methods of disposal:

Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers.

Empty container disposal/precautions:



Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.

Avoid contamination of any water supply with chemical or empty container.

Triple rinse containers; add rinsate to the spray tank. Then offer the container for recycling through the Agrecovery programme, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.

14. TRANSPORT INFORMATION - International transport regulations

UN number:

None

Hazchem

3Z

DG Code:

Not a dangerous good.

Packing Group:

III

Marine Pollutant:

Yes

Proper shipping name:

Not a dangerous good.

MTQ (non-Commercial):

Passenger Service Vehicle:

15. REGULATORY INFORMATION

ACVM Registered Number:

P001487

HSNO Approval Code:

HSR000424

16. OTHER INFORMATION

Additional information:

Original Issue Date: Sept 2019

Revision Date: 30 January 2025

Replaces: ES510

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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