



SAFETY DATA SHEET

ASULOX

Date of Issue: 26 July 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Asulam - a methyl sulfanylcarbamate derivative

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: 6.3B, 6.4A, 6.8B, 9.1C, 9.2D

Required identification Details:

Signal Word: WARNING
Keep out of reach of Children.
Read label before use.



May cause skin and eye irritation.
May cause reproductive/development damage from repeated oral exposure.
Harmful to aquatic life with long-lasting effects.
Harmful to soil environment.

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	secret	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:

5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards:

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.

Fire Fighting:

If a significant quantity of this product is involved in a fire, call the fire brigade.

6. ACCIDENTAL RELEASE MEASURES

Accidental release:

Personal precautions:

Minor spills do not normally need any special clean-up measures. 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.

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

Exposure Standards:

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

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:

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

Respiratory system:

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

Physical State: Colour, Odour.	Clear, light brown coloured liquid. Negligible odour.
pH:	7.0 - 8.0
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Boiling Point:	Approximately 100°C, at 100kPa
Flash Point:	
Freezing/melting point:	Approximately 0°C.
Solubility:	Completely soluble in water.
Specific Gravity/Density:	1.205 at 20°C
Auto Ignition:	Not applicable - does not burn.
Information for flammable material:	
Viscosity:	
Octanol/water partition coefficient:	No data.
Evaporation rate:	No data.
Oxidation Properties:	

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.

11. TOXICOLOGICAL INFORMATION

Asulam (Sodium Salt):

Acute toxicity – Oral:

LD₅₀ Oral, Rat >4000mg/kg
LD₅₀ Oral, Mouse = >4000mg/kg
LD₅₀ Oral, Dog = >4000mg/kg
LD₅₀ Oral, Rabbit = >4000mg/kg
LD₅₀ Dermal, Rat = >1200mg/kg

Acute toxicity - Dermal:

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 contact:

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 contact:

Short term exposure: This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term eye exposure.

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.

Chronic toxicity
Carcinogenicity:

No significant ingredient is classified as carcinogenic.

Mutagenicity:
Reproduction toxicity:

12. ECOLOGICAL INFORMATION

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

Aquatic

LC₅₀ rainbow trout: >5000mg/L

LC₅₀ goldfish: >5000mg/L

LC₅₀ catfish: >5000mg/L

Birds

LD₅₀ mallard: >4000mg/kg

LD₅₀ pheasant: >4000mg/kg

LD₅₀ pigeon: >4000mg/kg

Bioaccumulation:

Degradability:

Mobility:

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.

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.

Empty container precautions:



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 code: 3Z
Class or Division: NA
Subsidiary Class:
Packing Group: III
Marine Pollutant: Yes
Proper shipping name: Not a dangerous good.

**INTERNATIONAL AIR
TRANSPORT ASSOCIATION
(IATA):** Not a dangerous good.

15. REGULATORY INFORMATION

ACVM Registered Number: P001487
HSNO Approval Code: HSR000424

16. OTHER INFORMATION

Additional information: **Original Issue Date:** Sept 2019
Revision Date: 27 July 2021
Replaces:

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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