

Nufarm Expand Adjuvant

Infosafe No.: 3NV6D
ISSUED Date : 18/08/2022
ISSUED by: NUFARM AUSTRALIA LIMITED.

1. Identification

GHS Product Identifier

Nufarm Expand Adjuvant

Product Code

0481

Product Type

Surfactant/Sticker

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)

Emergency Contact Name

www.nufarm.com.au

E-mail Address

SDSANZ@nufarm.com

Recommended use of the chemical and restrictions on use

For use with low volume application to enhance the spreading and foliage deposition of fungicides, insecticides, plant growth regulators and foliar nutrients as per the Directions for Use table on the label.

Disclaimer

This Safety Data Sheet describes the properties of the intermediate 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

GT/VT/IT 4 Acute Toxicity - Inhalation: Category 4

ED1 Eye Damage/Irritation: Category 1

SS-1 Sensitization - Skin: Category 1

AC2 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2

Signal Word (s)

DANGER

Hazard Statement (s)

H332 Harmful if inhaled.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H411 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)

Corrosion, Exclamation mark, Environment,

The below pictograms are GHS Hazard symbols for workplace use only.

See SECTION 14 for Dangerous Goods information.



Precautionary statement–Prevention

P261 Avoid breathing mist, vapours and spray.

P280 Wear protective gloves, clothing, eye and face protection.

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

Precautionary statement–Response

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

P310 Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P363 Wash contaminated clothing before reuse.

Other Information

Poisons Schedule : Not Scheduled

3. Composition/information on ingredients

Ingredients

Name	CAS	Proportion
Trisiloxane Ethoxylate		500 g/L
Polyalkylene Oxide		10-30 %
Alcohol Ethoxylate		<35%

4. First-aid measures

Inhalation

If symptoms develop or persist, seek medical advice.

Ingestion

Give a glass of water.

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

If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.

If irritation persists, seek medical advice.

Eye contact

If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

Seek medical advice if irritation develops or persists.

First Aid Facilities

Provide facilities for eye washing and showering, especially at places where the concentrate is being handled.

Advice to Doctor

Treat symptomatically.

If lavage is performed, suggest endotracheal and /or oesophagoscopic control.

Care must be taken with gastric lavage due to the aspiration hazard associated with this product.

If vomiting occurs, surfactant present may cause pulmonary pneumonitis.

5. Fire-fighting measures

Suitable Extinguishing Media

Avoid using large volumes of water which would spread the product.

Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products

If involved in a major fire, could evolve oxides of silicon or carbon.

Combustible liquid at high temperatures.

Special Protective Equipment for fire fighters

Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Other Information

STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).

Collect in sealed open top containers for disposal.

On-site disposal of concentrate is not acceptable.

Personal Protection

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

Environmental Precautions

Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling

No special precautions are necessary when handling sealed containers.

For personal protective equipment (PPE) and hygiene advice, refer Section 8.

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.

Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

Do not store below 4 °C.

Other Information

Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values

No exposure standard has been established for this product.

Appropriate engineering controls

Natural ventilation is sufficient when handling concentrate and preparing spray solution.

Eye Protection

Eye protection is essential.

Hand Protection

PVC, neoprene or natural rubber gloves.

Personal Protective Equipment

When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.

Re-entry period: Do not enter treated area until spray has dried.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

After each day's use, wash contaminated clothing and safety equipment.

9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Clear colourless liquid
Odour	Mild	Melting Point	<5°C
Boiling Point	>150°C	Solubility in Water	Disperses in water.
Specific Gravity	1.00	pH	7-8 (1% in water)
Vapour Pressure	<0.13 kPa (20°C)	Flash Point	110°C
Flammability	Combustible liquid C2. (AS1940 - 2017). A C2 combustible liquid is not a combustible liquid within the meaning of the Australian Code for the Transport of Dangerous Goods by Road & Rail.	Flammable Limits - Lower	Not known.
Flammable Limits - Upper	Not known.		

10. Stability and reactivity

Chemical Stability

Stable under normal conditions.

Conditions to Avoid

Excessive heat and fire.

Incompatible materials

Will break down rapidly when mixed with highly acidic or highly alkaline chemicals.

Possibility of hazardous reactions

Keep away from strong oxidising agents.

Hazardous Polymerization

Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information

No harmful effects are expected if the precautions on the label and this MSDS are followed.

Acute Toxicity - Oral

LD50 (rat) >2000 mg/kg

Acute Toxicity - Inhalation

No data available.

Acute Toxicity - Dermal

LD50 (rat) >4000 mg/kg

Ingestion

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

Inhalation

Not a likely route of exposure when handling the concentrate.

Skin

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

Will irritate the skin.

Eye

The concentrate will cause irritation of the eyes.

Skin corrosion/irritation

Mild to moderate skin irritant.

Serious eye damage/irritation

The product is an eye irritant.

Mutagenicity

Data indicates no mutagenic effects.

Skin Sensitisation

Product is a skin sensitiser.

Carcinogenicity

Data indicates no carcinogenic effects.

Reproductive Toxicity

Data indicates no reproductive effects.

Data indicates no teratogenic effects.

Chronic Effects

No information available, no chronic effects expected.

12. Ecological information

Known Harmful Effects on the Environment

This and related products do not appear to pose any threat to birds.

This and related products do not appear to pose any threat to fish or other aquatic organisms other than in very high concentrations.

Other Precautions

Do not contaminate dams, waterways or sewers with this product.

Acute Toxicity - Fish

LC50 (96hr) for rainbow trout is 4.5 mg/l.

The following is data for the ingredient, trisiloxane ethoxylate.

NOEC (96hr) for rainbow trout is 3.2 mg/l.

Acute Toxicity - Daphnia

LC50 (48hr) for daphnia magna is 24 mg/l for trisiloxane ethoxylate.

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.

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.

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.

If recycling, replace cap and return clean containers to recycler or designated collection point.

Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.

If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.

14. Transport information

Transport Information

It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

U.N. Number

None Allocated

UN proper shipping name

COMBUSTIBLE LIQUID - CLASS C1 Flashpoint >61°-150°C

Transport hazard class(es)

None Allocated

Storage and Transport

Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

For bulk shipments as Class 9, use UN 3082, HazChem code •3Z.

UN Number (Sea Transport)

UN 3082

IMDG Class/Packing Group

Class 9; Packing group III

IMDG Marine Pollutant (MP)

Marine Pollutant

IMDG Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(trisiloxane ethoxylate)

15. Regulatory information

Poisons Schedule

Not Scheduled

Packaging & Labelling

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information

APVMA product number: 90892.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

16. Other Information

Contact Person/Point

Normal Hours: SDS Coordinator Phone: +61 3 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

END OF SDS

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