



Safety Data Sheet (SDS)
According to UN GHS 9th Ed
Revision Date: 2023/11/20

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Substance: alcohol ethoxylate.
Product Name: ASTRANT
Product Use: Wetting and Sticking Adjuvant
Creation Date: April 2024

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Green Island Investments Pty Ltd
P.O Box 1822, Heidelberg 1438

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
Spill Tech: 086 100 0366 (a/h)

SECTION 2 - HAZARD IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Environment		
Aquatic acute	Aquatic Acute 1	H400
Aquatic chronic	Aquatic Chronic 3	H412

The most important adverse effects: **Physiochemical effects:** None known **Human health effects:** None known

Label elements:



Signal word: Warning
Hazard statements:

H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273: Avoid release to the environment. P391: Collect spillage.
P501: Dispose of contents/container in accordance with local regulations.



Safety Data Sheet (SDS)
According to UN GHS 9th Ed
Revision Date: 2023/11/20

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Unclassified

SECTION 3 - COMPOSITION | INFORMATION ON INERTS

Substance/Mixture: Mixture
Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	69011-36-5	90%	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

Inhalation:

Remove the source of contamination or move victim to fresh air. Keep the patient under observation. Treat symptomatically and supportively. If irritation persists, obtain medical attention immediately.

Skin contact:

Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with large amounts of water and non- abrasive soap. If irritation develops, obtain medical attention.

Eye contact:

Flush eyes immediately with large amounts of gently flowing cold water, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, get medical attention.

Ingestion:

Do not induce vomiting. Do not give anything by mouth. If the person is alert, rinse mouth thoroughly with water. Obtain medical attention immediately. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus.

Advice to physician:

There is no specific antidote available. Treat symptomatically and supportively.



Safety Data Sheet (SDS)
According to UN GHS 9th Ed
Revision Date: 2023/11/20

SECTION 5 - FIRE-FIGHTING MEASURES

Fire and explosion hazard:

This material is not flammable. Flash point: > 140 °C.

Extinguishing agents:

Extinguish fires with water fog, carbon dioxide, dry chemical or alcohol foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal.

Fire fighting:

Remove spectators from surrounding area. Remove container from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind.

Personal protective equipment:

Fire may produce irritating and/or toxic fumes and gases.

Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

Environmental precautions:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs. Product is considered a Marine Pollutant.

Occupational spill:

For small liquid spills, soak up with non-combustible material like vermiculite, damp earth or sand, or other non-combustible absorbent material and place into containers for later disposal.

For large liquid spills, dike ahead of liquid spill and contain the liquid for later disposal.

In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling:

Harmful by inhalation. Harmful if swallowed. Irritating to skin or eyes. Avoid contact with eyes and skin, and inhalation of spray and vapour. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing.

Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage:

Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original labelled container in isolated, dry, cool and well-ventilated area. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.



Safety Data Sheet (SDS)
According to UN GHS 9th Ed
Revision Date: 2023/11/20

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Respirator:

It is usually safe to use the product without respirator. Where exposure through inhalation may occur when handling and or using the product, wear a face mask. If the product is used in dusty or confined conditions or spillage and fire conditions a respirator suitable for protection from dusts and mists of pesticides is adequate.

Clothing:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves:

Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection:

The use of safety goggles is recommended.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless liquid.
Odour:	Noticeable mild odor.
Flammability:	Not flammable
Flash point:	147 °C open cup
Solubility:	Soluble in water.
Density:	0,99 ± 0,05.
Corrosiveness:	Not corrosive.
pH:	6,6

SECTION 10 - STABILITY AND REACTIVITY

Stability:

Chemically and thermally stable. Stable under normal storage conditions. Considered stable for a period of 2 years under recommended warehouse and light conditions. .

Incompatibility:

Incompatible with strong oxidizing substances and combustible materials.

Hazardous decomposition products:

Irritating and/or toxic fumes and gases may be emitted upon decomposition. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or hydrocarbons.

Safety Data Sheet (SDS)
According to UN GHS 9th Ed
Revision Date: 2023/11/20

SECTION 11 - TOXICOLOGICAL INFORMATION

Calculated according to GHS Oral LD50 Not classified.

Dermal LD50 Not classified.

Inhalation LC50 Not classified.

Skin Irritation: Not classified.

Eye Irritation: Not classified.

Skin Sensitization: Not classified.

Respiratory Sensitization: Not classified.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not classified.

Chronic Effects: Not classified.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Not available.

Skin contact: Not available.

Eye contact: Not available.

Ingestion: Not available.

Acute oral LD₅₀; Rat: 1400 mg/kg

Acute dermal LD₅₀; Rabbit: > 2000 mg/kg

Acute inhalation LC₅₀: Irritant to the respiratory tract.

Acute skin irritation: Moderate to severe irritant.

Acute eye irritation: Moderate to severe irritant.

Risk of serious damage to eyes.

Chronic toxicity:

No tumors or other treatment related lesions were observed.

Mutagenicity/Genotoxicity:

Ames test and chromosome aberrations were negative. No evidence of mutagenic potential.

Reproductive toxicity/Teratogenicity:

No treatment related changes in reproduction/development parameters were observed.

SECTION 12 - ECOLOGICAL INFORMATION

Mobility:

The product is soluble in water.

Degradability and Persistence:

The product is biodegradable. Alcohol ethoxylates undergo rapid primary (97% in 5 to 7 days) and ultimate (84% in 28 days) biodegradation under laboratory conditions.

ECOTOXICOLOGY:

May be hazardous to fish and aquatic organisms.

Fish: Moderately toxic to fish.

LC₅₀ (96 hours): Rainbow trout: 0,9 to 2,7 mg/ℓ

Rainbow trout (semi-static): 10 to 100 mg/ℓ

Bluegill sunfish: 0,7 to 12,3 mg/ℓ

Daphnia: May be toxic to aquatic invertebrates.

LC₅₀ (48 hours): *Daphnia magna*: 0,29 to 72 mg/ℓ

Safety Data Sheet (SDS)
According to UN GHS 9th Ed
Revision Date: 2023/11/20

SECTION 13 - DISPOSAL CONSIDERATION

Pesticide and container disposal:

Open dumping or burning of this product is prohibited. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Considered a Marine Pollutant.

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

TRIPLE RINSE empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

SECTION 14 - TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3082	3082	3082
UN Proper shipping name:	Environmentally hazardous substance, liquid, N.O.S. (alcohol ethoxylate.)	Environmentally hazardous substance, liquid, N.O.S. (alcohol ethoxylate.)	Environmentally hazardous substance, liquid, N.O.S. (alcohol ethoxylate.)
Transport hazard class:	9	9	9
Packaging group:	III	III	III
Marine pollutant:	yes	yes	yes
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

Inland waterways: Not required.

Emergency response information: No information.



Safety Data Sheet (SDS)
According to UN GHS 9th Ed
Revision Date: 2023/11/20

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP].

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16 - OTHER INFORMATION

Indication of changes: All sections.

Relevant H statements (number and full text):

Aquatic Chronic
H410

Hazardous to the aquatic environment - chronic
Very toxic to aquatic life with long lasting effects.

Training instructions: No special training required. Read label of product.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers: Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.