



SAFETY DATA SHEET

UNISON®

Date of Issue: 29 August 2022

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Polyoxyethylene sorbitan fatty acid ester, soybean oil ethoxylate, copolymer of alpha- and beta-pinene
Recommended use: Adjuvant
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

Required identification Details: **Non-Hazardous**
Keep out of reach of Children.
Read label before use.
Any person purchasing, handling or disposing of this product must be suitably qualified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
SORBITAN, MONO-(9Z)-9-OCTADECENOATE, POLY(OXY-1,2-Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, polymer with 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptane	9005-65-6	25 - 50
	31393-98-3	10 - 25

4. FIRST-AID MEASURES

Effects and symptoms No adverse symptoms or effects anticipated under normal handling conditions See section 2 for further details.

General information: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

First-aid measures

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.

Eye contact: Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

Notes to a physician:

5. FIRE-FIGHTING MEASURES

General Fire Hazards:

Extinguishing media:

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray. Do not use; water jet.

Hazardous thermal (de)composition products:

Hazardous decomposition: Not anticipated under normal conditions of use.

Special fire-fighting procedures:

Advice for fire-fighters:

Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulphur, nitrogen or phosphorus may also be formed.

Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems. Exposed firefighters must wear standard protective equipment and in enclosed areas self-contained breathing apparatus. Use water-spray to cool fire exposed surfaces and personnel

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Keep all sources of ignition away from spill/release. In case of a major spill or spillage in a confined space evacuate the area and check vapor levels.

Environmental precautions:

Do not allow spills to enter drains or watercourses.

Methods for cleaning up:

Ventilate the area and avoid breathing vapours or mists. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13). Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains or watercourses. If drains, sewers, streams or lakes are contaminated, inform the local water company immediately.

7. HANDLING AND STORAGE

Handling:

Wear protective gloves / eye protection / face protection.

Do not get in eyes on skin or on clothing.

Do not breathe vapors or mists.

Keep container closed. Use only with adequate ventilation.

Use good personal hygiene practices.

Wash hands thoroughly before eating, drinking, smoking.

Remove contaminated clothing and clean before re-use.

Storage:

Store in tightly closed containers in dry, well-ventilated area away from excessive heat and incompatibles.

Incompatible materials: Oxidizing agents

Packaging materials:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Exposure Standards: No Established Limit

Engineering measures

Exposure control measures: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Personal Protective Equipment

General information:

Respiratory system:

If workers are exposed to concentrations above the exposure limit, they must use the appropriate, certified respirators.

Skin and body:

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed.

All parts of the body should be washed after contact.

Hands:

Eyes:

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.

General hygiene:

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour.	Clear Pale yellow liquid. Fatty odour.
pH:	4.5 - 5.5 (1% aqueous solution)
Vapour Pressure:	
Boiling Point:	Not Measured.
Flash Point:	>93 (C) > 200 (F) SETA FLASH CLOSED CUP
Freezing/melting point:	Not Measured.
Solubility:	
Specific Gravity/Density:	0.96 - 0.98 @ 20 C
Vapor pressure:	Not Measured
Vapor density:	Not Measured
Auto-ignition:	Not Measured
Upper/lower flammability or explosive limits:	Not Measured
Evaporation rate:	Not Measured
Viscosity:	Not Measured
Octanol/water partition coefficient:	Not Measured
Explosive Properties:	
Oxidation Properties:	

10. STABILITY AND REACTIVITY

Stability:	Stable under normal ambient and anticipated conditions of use. Not chemically reactive.
Conditions to avoid:	Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.
Materials to avoid:	Oxidizing agents.
Hazardous Decomposition Products:	Not anticipated under normal conditions of use.
Hazardous reactions:	Hazardous reactions not anticipated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral: Not Applicable

Acute toxicity - Dermal:	Not Applicable
Acute toxicity – Inhalation:	Not Applicable
Skin irritation:	Causes mild skin irritation – Category 3, not adopted by NZ.
Eye irritation:	Not Applicable.
Sensitization:	Not Applicable.


Chronic toxicity

Carcinogenicity:	Not Applicable
Germ Cell Mutagenicity:	Not Applicable
Reproductive toxicity:	Not Applicable
Aspiration Hazard:	Not Applicable
Specific target organ systemic toxicity (single exposure):	Not Applicable.

12. ECOLOGICAL INFORMATION

Toxicity:	No additional information provided for this product.
Fish	Not available.
Aquatic Invertebrates	
Chronic hazards to the aquatic environment:	
Fish	
Aquatic Invertebrates	
Persistence and Degradability:	There is no data available on the preparation itself
Biodegradation	
Bioaccumulative potential:	Not Measured
Bioconcentration Factor (BCF)	
Results of PBT and vPvB assessment:	This product contains no PBT/vPvB chemicals
Mobility in soil:	No data available
Other adverse effects:	No data available

13. DISPOSAL CONSIDERATIONS

Methods of disposal:	Ideally, the product should be used for its intended purpose. 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.
	
Empty container precautions:	Avoid contamination of any water supply with chemical or empty pack. Ensure pack is completely empty by adding residue to spray tank.

14. TRANSPORT INFORMATION - International transport regulations

UN number:	NA
Hazchem:	NA
Class or Division:	NA
Subsidiary Class:	
Packing Group:	NA
Marine Pollutant:	No
Proper shipping name:	Not regulated

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

15. REGULATORY INFORMATION

ACVM Registered Number:
HSNO Approval Code:

Exempt from registration under the ACVM Act 1997
Non-hazardous

16. OTHER INFORMATION

Additional information:

Original Issue Date: 29 August 2022

Revision Date:

Replaces:

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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