

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC Australia

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
ABN 33 002 933 717
Level 1, 2-4 Lyon Park Road
NORTH RYDE, NSW 2113

Telephone No.: (02) 8876 8444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: AGRAL SPRAY AJUVANT

Formulation type:		UN number:	none allocated
Active ingredient:	Polyethanoxy-8-nonyl phenol	Dangerous goods class:	none allocated
Product code:		Subsidiary risk:	none allocated
Chemical type:	surfactant	Hazchem code:	not allocated
Poisons schedule:	none allocated	Packing group:	not allocated
		EPG/IERG:	not allocated

USE: Agricultural wetting agent.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	pale straw coloured liquid	Flash Point:	> 100°C
Odour:	alcohol odour	Flammability limits:	not available
Melting point:	< 0 °C	Specific gravity:	0.99 g/cm ³
Vapour pressure:	0.007 kPa approx	Solubility in water:	soluble

OTHER PROPERTIES

pH (1% aqueous):	5.8	Explosive properties:	not explosive
Viscosity (B field):	210 cP	% volatility by weight:	27.5
Stability:	reacts with oxidising agents	Combustibility:	C1 combustible
Relative vapour density:	> 1 (air = 1)		

INGREDIENTS

	CAS No.	Content (%w/v)
Polyethanoxy-8-nonyl phenol	9016-45-9	60%
2-ethyl hexanol	104-76-7	10-29
water	7732-18-5	10-29
other ingredients deemed not to be hazardous	----	30 – 60

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE TOXICITY

This product is harmful according to NOHSC Australia.
No LD50 data available for this product or the active ingredient.

Swallowed:	Swallowing may result in irritation of the gastrointestinal tract.
Dermal:	Contact with skin may result in irritation and will have a degreasing action. Repeated or prolonged skin contact may lead to irritant contact dermatitis
Inhaled:	When used in poorly ventilated area/at elevated temperatures/in confined spaces vapour may cause irritation to mucous membranes and respiratory tract, headaches and nausea.

Irritation:
 Eye: MODERATE IRRITANT (rabbit)
 Skin: MODERATE IRRITANT (rabbit)

Sensitisation:
 Skin: NOT AVAILABLE

CHRONIC TOXICITY: No information on chronic toxicity available.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.

Swallowed: Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical assistance.
 Eye: Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Seek medical assistance.
 Skin: Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.
 Inhaled: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

ADVICE TO DOCTOR

Treat symptomatically.

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

EXPOSURE STANDARDS

No value assigned for this specific material by NOHSC, however, supplier recommended hygiene standard -

	TWA	
	ppm	mg/m ³
2-ethyl hexanol	200	---

TWA = The time weighted average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation is a possible route of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.

Re-entry Period - Do not enter treated areas without protective clothing until spray has dried.

ENGINEERING CONTROLS

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. The vapour is heavier than air – prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

PERSONAL PROTECTION

MANUFACTURE, PACKAGING AND TRANSPORT: Avoid skin and eye contact. Wear overalls, chemical safety glasses and impervious gloves. Use with adequate ventilation. Always wash hands before smoking, eating, drinking or using the toilet. If inhalation risk exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

PREPARATION AND USE OF PRODUCT: Avoid contact with skin and eyes. When using the product wear overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and face shield or goggles. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield, respirator and contaminated clothing with detergent and warm water.

Only use protective equipment bearing the mark of the Standards Association of Australia.

FLAMMABILITY

This product is a combustible liquid.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals. Store and transport according to the requirements for a C1 combustible liquid, in accordance with the requirements of AS 1940.

SPILLS AND DISPOSAL

Product is slippery when spilt. In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

Procedure for spill:

- (1) Keep all bystanders away.
- (2) Wear full length clothing, PVC gloves and protective equipment to prevent inhalation of vapours.
- (3) Re-position any leaking containers so as to minimise further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50L of product bury in a secure landfill site.
 - For quantities greater than 50L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

Dispose of empty, used containers by:

- (a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) If recycling, replace cap and return clean containers to recycler or designated collection point.
- (c) If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

FIRE/EXPLOSION HAZARD

This product is a combustible liquid. On burning this material will emit toxic fumes. Extinguish warehouse and factory fires using water fog, fine water-spray, foam or dry agent (carbon dioxide, dry chemical powder). When fighting a major fire wear SCBA and structural firefighters uniform. Do not allow fire-water to enter drains.

OTHER INFORMATION

The active ingredient nonyl phenol ethoxylate is harmful to aquatic organisms.

Bluegill sunfish, LC₅₀ (96 h) = 1.3 - > 1000 mg/L

Water Flea, *Daphnia magna*, LC₅₀ (48 h) = 2.9 – 12.5 mg/L, LC₅₀ (24 hr) = 44.2 mg/L

The degradation product nonyl phenol is toxic to aquatic organisms.

Ceriodaphnia dubia, LC₅₀ (48 h) = 0.47 mg/L brown shrimp, LC₅₀ (96 h) = 0.42 mg/L

lobster, LC₅₀ (96 hr) = 0.2 mg/L mussel, LC₅₀ (96 hr) = 3.0 mg/L

hook nose fish, LC₅₀ (96 hr) = 0.51 mg/L cod, LC₅₀ (96 hr) = 3.0 mg/L

flathead, LC₅₀ (96 hr) = 0.3 mg/L

Biodegradation of nonylphenol ethoxylates proceeds through the formation of water insoluble intermediates which are more toxic to aquatic biota. Primary degradation of NPE was 98% within 30 days. Substantially biodegradable. DOC 82%.

Note: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

<p>CONTACT POINT: Regulatory Affairs Manager - Crop Protection - (02) 8876 8444</p> <p>24 HOURS EMERGENCY CONTACT: 1 800 033 111</p>

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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