


SAFETY DATA SHEET

Section 1: Identification: Product identifier and chemical identity

Product Identifier:	AGRAL Spray Adjuvant
Other Means of Identification:	Product code: A13654A
Recommended Use:	Adjuvant
Details of manufacturer or importer	Syngenta Australia Pty Ltd ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Website:	syngenta.com.au
Phone Number:	(02) 8014 5200
Emergency Phone Number:	24 hours - 1800 033 111

Section 2: Hazards identification

Classification of the Hazardous Chemical:	Acute Toxicity – Oral – Category 4 Serious Eye Damage/Irritation – Category 1
Signal Word:	DANGER
Hazard Statement(s):	H302 Harmful if swallowed H318 Causes serious eye damage
Precautionary Statement(s):	P102 Keep out of reach of children. P103 Read label before using P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. P330 Rinse mouth. P280 Wear eye protection. 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 CENTRE or doctor/physician. P501 Dispose of contents/container to an approved waste management authority.
Hazard Symbols:	

Section 3: Composition and information on ingredients

SUBSTANCE		
Chemical Identity of Pure Substance:	Nonyl phenol ethylene oxide condensate	
CAS Number:	9016-45-9	
MIXTURE		
Chemical Identity of Ingredients:	CAS No	Proportion (%w/v)
nonyl phenol ethylene oxide condensate	9016-45-9	63
1-hexanol, 2-ethyl	104-76-7	10 – <30%
other ingredients determined not to be hazardous	–	to 100

Section 4: First aid measures

Description of Necessary First Aid Measures:	<p>In case of poisoning by any exposure route get to a doctor or hospital quickly. Phone Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>Ingestion: If swallowed, seek medical advice immediately and show this container or label. DO NOT induce vomiting.</p> <p>Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.</p> <p>Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.</p> <p>Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Information Centre immediately.</p>
Symptoms Caused by Exposure:	Poisoning symptoms in laboratory animals were non-specific.
Medical Attention and Special Treatment:	There is no specific antidote available. Treat symptomatically.

Section 5: Fire fighting measures

Suitable Extinguishing Equipment:	<p>Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. DO NOT use a solid water stream as it may scatter and spread fire.</p> <p>Large fires: Use alcohol resistant foam or water spray. DO NOT use a solid water stream as it may scatter and spread fire</p>
Specific Hazards Arising from the Chemical:	As this product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Combustion or thermal decomposition will evolve toxic and irritant vapours. Exposure to decomposition products may be a hazard to health.
Special Protective Equipment and Precautions for Fire Fighters:	<p>When fighting a major fire wear full protective clothing and self contained breathing apparatus.</p> <p>Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.</p>

Section 6: Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures:	<p>In case of spillage it is important to take all steps necessary to</p> <ul style="list-style-type: none"> • Avoid eye and skin contact • Avoid contamination of waterways
Environmental precautions:	<p>Prevent further leakage or spillage if safe to do so. DO NOT flush into surface water or sanitary sewer system.</p>

Methods and Materials for Containment and Clean Up:	Procedure for spill (1) Keep all bystanders away (2) Wear full length clothing and PVC gloves (3) Reposition any leaking containers so as to minimise further leakage (4) Dam and absorb spill with an absorbent material (eg sand or soil) (5) Shovel the absorbed spill into drums (6) Disposal of the absorbed material will depend upon the extent of the spill <ul style="list-style-type: none"> • For quantities up to 50 L of product bury in a secure landfill site • For quantities greater than 50 L 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 spill area with detergent and water and rinse with the smallest volume of water practicable
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Section 7: Handling and storage

Precautions for Safe Handling:	Avoid contact with eyes and skin. When using the product wear cotton overalls buttoned to the neck (or equivalent clothing), elbow-length PVC/rubber gloves and goggles
Conditions for Safe Storage, Including any Incompatibilities:	Keep out of reach of children. Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

Section 8: Exposure controls and personal protection

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated
Syngenta Exposure Standards:	No exposure standard allocated
Biological Limit Values:	No biological limit allocated
Engineering Controls:	No special requirements. Product is used outdoors.
Personal Protective Equipment:	Avoid contact with eyes and skin. When using the product wear cotton overalls buttoned to the neck (or equivalent clothing), elbow-length PVC/rubber gloves and goggles

Section 9: Physical and chemical properties

Appearance:	Pale yellowish, liquid	Boiling Point/Range:	Not available
Odour:	Alcohol odour	Freezing:	Not available
pH:	5.8 (1% aqueous)	Solubility:	Soluble in water
Vapour Pressure:	0.007 kPa approx.	Specific Gravity:	0.99 g/cm ³
Vapour Density:	>1 (air = 1)	Viscosity:	210 cP (B field)
Volatility by weight:	2.75%		

Flash Point:	>100°C	Explosive Properties:	Not explosive
Upper and Lower Flammable (Explosive) Limits in Air:	Not available	Oxidising Properties:	Reacts with oxidising agents
Auto Ignition Temperature:	Not available	Combustibility:	Combustible
		Corrosiveness:	Not corrosive

Section 10: Stability and reactivity

Reactivity:	No information available
Chemical Stability:	Stable at normal ambient temperature and pressure.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Keep away from heat, sparks or open flames. Keep away from sources of ignition.
Incompatible Materials:	Strong oxidizing materials, such as hydrogen peroxide, bromine, chromic acid, strong bases, strong acids. Can be made to burn under fire conditions.
Hazardous Decomposition Products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11: Toxicological information

Health Effects from Likely Routes of Exposure:	
Acute	No LD ₅₀ data available for this product or the active ingredient
Oral toxicity:	Swallowing may result in irritation of the gastrointestinal tract
Dermal toxicity:	Contact with skin may result in irritation and will have a decreasing action. Repeated or prolonged skin contact may lead to irritant contact dermatitis
Inhalation:	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
Skin irritation:	MODERATE IRRITANT (rabbit)
Eye irritation:	MODERATE IRRITANT (rabbit)
Sensitisation:	Not available
Chronic	No information on chronic toxicity available

Section 12: Ecological information

Ecotoxicity	Toxicity to aquatic organisms:	<p>The active ingredient nonyl phenol ethoxylate is Moderately toxic to aquatic organisms <i>Bluegill Sunfish</i> LC₅₀ (96 hours) = 1.3–>1,000 mg/L</p> <p><i>Daphnia magna</i> (Water flea): LC₅₀ (48 hours) 2.9–12.5 mg/L LC₅₀ (24 hours) 44.2 mg/L</p> <p>The degradation product nonyl phenol is Highly toxic to aquatic organisms LC₅₀ (48 hours) = 0.47 mg/L <i>Ceriodaphnia dubia</i> LC₅₀ (96 hours) = 0.42 mg/L Brown Shrimp LC₅₀ (96 hours) = 0.2 mg/L Lobster LC₅₀ (96 hours) = 3 mg/L Mussel LC₅₀ (96 hours) = 0.51 mg/L Hook Nose Fish LC₅₀ (96 hours) = 3 mg/L Cod LC₅₀ (96 hours) = 0.3 mg/L Flathead</p>
Persistence and Degradability:	Biodegradation of nonyl-phenol 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%	
Mobility	Not available	

Environmental Fate (Exposure):	Incorporated into C, N, O and H containing organic molecules
Bioaccumulative Potential:	Not available

Section 13: Disposal considerations

Disposal Methods:	Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. 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.
Special Precautions for Incineration or Landfill:	Not applicable

Section 14: Transport information

LAND TRANSPORT ADG	Not a dangerous good in Australia		
UN Number:	None allocated	Packing Group:	None allocated
UN Proper Shipping Name:	None allocated	Special Precautions for User:	None allocated
Transport Hazard Class:	None allocated	Hazchem or Emergency Action Code:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Transport Hazard Class:	None allocated	Environmental hazards for Transport Purposes:	No

AIR TRANSPORT IATA - DGR			
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Transport Hazard Class:	None allocated		

Section 15: Regulatory information

APVMA Product Number:	54116
Poisons Schedule (SUSMP):	Exempt

Section 16: Any other relevant information

Date of preparation or last revision: 19 October 2021

Source of Data: The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions

CONTACT POINT: Regulatory Affairs Manager, Syngenta Australia Pty Ltd
(02) 8014 5200

24 HOURS EMERGENCY CONTACT: 1800 033 111

This 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 SDS 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.

DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.

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