

SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	ADIGOR[®] Spray Adjuvant
Other Names:	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (solvent naphtha) Applicable only for marine and air transport
	Product code: A12127R
Recommended Use:	Adjuvant to assist in the performance of AXIAL [®] 100 EC Selective Herbicide and other crop protection products
Company Details:	Syngenta Crop Protection Pty Limited ABN 33 002 933 717
Address:	Level 1, 2-4 Lyonpark Road MACQUARIE PARK NSW 2113 AUSTRALIA
Telephone Number:	(02) 8876 8444
Emergency Telephone Number:	24 hours - 1800 033 111

Section 2: HAZARDS IDENTIFICATION

Hazard Classification:	Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals
Risk Phrases:	R43 May cause skin sensitisation by skin contact
Safety Phrases:	—

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	
Chemical Identity of Pure Substance:	Methyl esters of canola oil fatty acids
Synonym:	CA 2205
CAS Number:	67762-26-9

MIXTURE		
Chemical Identity of Ingredients	CAS No	Proportion (%w/v)
Methyl esters of canola oil fatty acids	67762-26-9	440
Ethoxylated alcohols, C16-18 and C18 unsaturated	68920-66-1 / 37335-03-8	10 – <30
Solvent naphtha (petroleum), highly aromatic	64742-94-5	10 – <30
Other ingredients determined not to be hazardous	-	to 100

Section 4: FIRST AID MEASURES

<p>Description of Necessary First Aid Measures:</p>	<p>In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p>General: Remove the affected person from the danger zone to a well ventilated room or to fresh air, and protect from undercooling</p> <p>Ingestion: Repeatedly administer medicinal charcoal in a large quantity of water. Note: Never give anything by mouth to an unconscious person. Do not induce vomiting</p> <p>Eye contact: Rinse eyes with clean water for several minutes and immediately call a physician</p> <p>Skin contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water, including hair and under fingernails</p> <p>Inhalation: Immediately remove to fresh air</p>
<p>Poisoning Symptoms: Medical Advice:</p>	<p>Poisoning symptoms in laboratory animals were non-specific No specific antidote is known. Treat symptomatically</p>

Section 5: FIRE FIGHTING MEASURES

<p>Suitable Extinguishing Media:</p>	<p><i>Small fires</i> Use dry chemical extinguisher, alcohol-resistant foam, carbon dioxide or water spray. DO NOT use direct jet of water as it may scatter and spread fire.</p> <p><i>Large fires</i> Use alcohol-resistant foam or water spray. DO NOT use direct jet of water as it may scatter and spread fire.</p>
<p>Hazards from Combustion Products:</p>	<p>Combustion products: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur dioxide Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably</p>
<p>Special Protective Precautions and Equipment for Fire Fighters:</p>	<p>Use self contained breathing apparatus. Wear protective equipment. 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

Emergency Procedures:	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none"> • Avoid eye and skin contact • Avoid contamination of waterways
Methods and Materials for Containment and Clean Up:	<p>Procedure for spill</p> <ol style="list-style-type: none"> (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

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes and skin. When using the product wear: <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) • elbow-length PVC gloves • goggles
Conditions for Safe Storage:	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 / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

National Exposure Standards:	No exposure standard allocated		
Supplier Exposure Standards	<i>Component</i>	<i>Exposure limit</i>	<i>Value type</i>
	Solvent naphtha (petroleum), highly arom.	20 ppm 100 mg/m ³	TWA TWA
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: <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) • elbow-length PVC gloves • goggles 		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow to yellow liquid	Boiling Point/Range:	> 230°C (1,013.25 hPa)
Odour:	Aromatic, like solvent	Freezing/Melting Point:	Solidification point <0°C
pH:	4-8 (1% w/v)	Solubility:	Not known
Vapour Pressure:	Not known	Density:	0.927 g/mL (20°C)
Vapour Density:	Not known	Miscibility with Water:	Miscible
Surface Tension:	32.4 mN/m at 25°C	Dynamic Viscosity:	15.1 mPa.s at 20°C 8.05 mPa.s at 40°C

Flash Point:	123°C	Explosive Properties:	Not explosive Not shock sensitive Not thermally sensitive
Upper and Lower Flammable (Explosive) Limits in Air:	Not known	Oxidising Properties:	Not oxidising
Ignition Temperature:	Not known	Combustibility:	Combustible at elevated temperatures
		Corrosiveness:	Not known

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under standard conditions
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	Combustion products are toxic and/or irritant. Carbon dioxide, carbon monoxide, nitrogen oxides, sulphur dioxide
Hazardous Reactions:	None known

Section 11: TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:		
Acute:	Oral toxicity:	LOW TOXICITY Tests on rats indicate this product has a low toxicity following single doses of undiluted product. LD ₅₀ >5,000 mg/kg (female rat)
	Dermal toxicity:	LOW TOXICITY Tests on rabbits indicate this product has a low toxicity following skin contact with undiluted product. LD ₅₀ >5,000 mg/kg (rat)
	Skin irritation:	NON IRRITANT
	Eye irritation:	NON IRRITANT
	Sensitisation:	SENSITISER
Chronic:	Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.	

Section 12: ECOLOGICAL INFORMATION

Moderately toxic to fish	96 hr LC ₅₀ <i>Oncorhynchus mykiss</i> (rainbow trout) = 9.6 mg/L
Moderately toxic to aquatic invertebrates	48 hr EC ₅₀ <i>Daphnia magna</i> (water flea) = 7.1 mg/L
Highly toxic to algae	72 hr EbC ₅₀ <i>Pseudokirchneriella subcapitata</i> = 0.51 mg/L 72 hr ErC ₅₀ <i>Pseudokirchneriella subcapitata</i> = 1.22mg/L
Persistence and Degradability:	Not known
Mobility	Not known
Environmental Fate (Exposure):	Expected to be biodegradable (derived from components)
Bioaccumulative Potential:	Not known

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	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 Landfill or Incineration:	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
Class:	None allocated	Hazchem Code:	None allocated
Subsidiary Risk:	None allocated		

SEA TRANSPORT IMDG			
UN Number:	3082	Subsidiary Risk:	Not applicable
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (solvent naptha)	Packing Group:	III
Class:	9	Marine Pollutant:	Marine pollutant

AIR TRANSPORT IATA - DGR	
UN Number: 3082	Subsidiary Risk: Not applicable
UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (solvent naptha)	Packing Group: III
Class: 9	

Section 15: REGULATORY INFORMATION

APVMA Product Number: 60114
Poisons Schedule (SUSDP): Exempt

Section 16: OTHER INFORMATION

Date of preparation or last revision: May 2010
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 Crop Protection Pty Limited (02) 8876 8444 24 HOURS EMERGENCY CONTACT: 1800 033 111
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 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.