

## SAFETY DATA SHEET

### Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	<b>Innova Glyphosate Trimesium 480 Herbicide</b>
<b>Other Names:</b>	<b>Product code:</b> A8855E
<b>Recommended Use:</b>	A non-selective foliar applied systemic herbicide for the control of a wide range of annual and perennial weeds
<b>Company Details:</b>	<b>Syngenta Crop Protection Pty Limited</b> ABN 33 002 933 717
<b>Address:</b>	<b>Level 1, 2-4 Lyonpark Road</b> <b>NORTH RYDE NSW 2113</b> <b>AUSTRALIA</b>
<b>Telephone Number:</b>	<b>(02) 8876 8444</b>
<b>Emergency Telephone Number:</b>	<b>24 hours - 1800 033 111</b>

### Section 2: HAZARDS IDENTIFICATION

<b>Hazard Classification:</b>	Hazardous according to the criteria of NOHSC Australia
<b>Risk Phrases:</b>	R22, R41. Harmful if swallowed. Risk of serious damage to eyes
<b>Safety Phrases:</b>	—

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<b>SUBSTANCE</b>	
<b>Chemical Identity of Pure Substance:</b>	Glyphosate trimesium
<b>Synonym:</b>	ASF71
<b>CAS Number:</b>	81591-81-3

<b>MIXTURE</b>		
<b>Chemical Identity of Ingredients</b>	<b>CAS No</b>	<b>Proportion (% w/v)</b>
Glyphosate trimesium	81591-81-3	48
Alkyl polysaccharide	110069-04-0	20 - 30
Other ingredients determined not to be hazardous	-	to 100

## Section 4: FIRST AID MEASURES

<b>Description of Necessary First Aid Measures:</b>	<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><b>Ingestion:</b> If swallowed, do NOT induce vomiting. Wash mouth with water.</p> <p><b>Eye contact:</b> Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.</p> <p><b>Skin contact:</b> Remove contaminated clothing and wash affected areas with soap and water. Wash contaminated clothing before re-use.</p> <p><b>Inhalation:</b> If inhaled, remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest.</p>
<b>Poisoning Symptoms:</b> <b>Medical Advice:</b>	<p>Poisoning symptoms in laboratory animals were non-specific. There is no specific antidote available. Treat symptomatically.</p>

## Section 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	<p>Small fires- use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Large fires- Alcohol resistant foam or water spray. Do not use solid water stream as it may scatter and spread the fire.</p>
<b>Hazards from Combustion Products:</b>	<p>As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.</p>
<b>Special Protective Precautions and Equipment for Fire Fighters:</b>	<p>Wear full protective clothing and self-contained breathing apparatus. Surrounding containers should be cooled using a fine water spray. Do not allow run-off from fire fighting to enter drains or water courses.</p>
<b>Hazchem Code:</b>	2X

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures:</b>	<p>In case of spillage it is important to take all steps necessary to:</p> <ul style="list-style-type: none"><li>• Avoid eye and skin contact.</li><li>• Avoid contamination of waterways.</li></ul>
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**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 (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.

## Section 7: HANDLING AND STORAGE

**Precautions for Safe Handling:**

Harmful if inhaled or swallowed. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray and using the prepared spray wear elbow-length PVC gloves and face shield. 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 and face shield and contaminated clothing.

**Conditions for Safe Storage:**

Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. 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 not 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.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

<b>National Exposure Standards:</b>	No exposure standard allocated
<b>Syngenta Exposure Standards:</b>	Glyphosate trimesium 5mg/m <sup>3</sup> (8 h TWA)
<b>Biological Limit Values:</b>	No biological limit allocated
<b>Engineering Controls:</b>	No special requirements. Product is used outdoors
<b>Personal Protective Equipment:</b>	Harmful if inhaled or swallowed. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray and using the prepared spray wear elbow-length PVC gloves and face shield. 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 and face shield and contaminated clothing.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Slightly viscous clear teloo brown liquid	<b>Boiling Point/Range:</b>	Approx. 100°C
<b>Odour:</b>	Characteristic	<b>Freezing/Melting Point:</b>	No specific data
<b>pH:</b>	3.8 – 4.6	<b>Solubility:</b>	Miscible
<b>Vapour Pressure:</b>	<0.01 mPa (glyphosate trimesium)	<b>Specific Gravity or Density:</b>	1.20 g/mL

<b>Flash Point:</b>	Does not flash	<b>Explosive Properties:</b>	Not explosive
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>	No data	<b>Oxidising Properties:</b>	Not oxidizing
<b>Ignition Temperature:</b>	No data	<b>Combustibility:</b>	Not combustible
		<b>Corrosiveness:</b>	No data

## Section 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under recommended storage and handling conditions.
<b>Conditions to Avoid:</b>	Unstable at extreme pH's and temperature.
<b>Incompatible Materials:</b>	Strong oxidising agents such as chlorates, nitrates, peroxides
<b>Hazardous Decomposition Products:</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours.
<b>Hazardous Reactions:</b>	None known. Hazardous polymerisation does not occur

## Section 11: TOXICOLOGICAL INFORMATION

<b>Health Effects from Likely Routes of Exposure:</b>		
<b>Acute:</b>	<b>Oral toxicity:</b>	<b>Low toxicity</b> LD <sub>50</sub> is 1,760 mg/kg (male rat); 1,298 (female rat for similar product)
	<b>Dermal toxicity:</b>	<b>Low toxicity</b> LD <sub>50</sub> > 2,000 mg/kg (male and female rabbit for a similar product)
	<b>Inhalation:</b>	<b>Moderate toxicity</b> LC <sub>50</sub> (4 hours, rat for similar product) > 0.83 mg/L
	<b>Skin irritation:</b>	<b>Non irritant</b> (rabbit for a similar product)
	<b>Eye irritation:</b>	<b>Moderate irritant</b> (rabbit for a similar product)
	<b>Sensitisation:</b>	<b>Not sensitising</b> (guinea pig for a similar product)
<b>Chronic</b> :	Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.	

## Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	<b>MODERATE TOXICITY</b> Acute LC <sub>50</sub> (96 hour) 517 mg/L (rainbow trout, similar product) Acute EC <sub>50</sub> (48 hour) 10.1 mg/L ( <i>Daphnia magna</i> , similar product) Acute EbC <sub>50</sub> (96 hours) 14 mg/L (green algae, similar product) Acute ErC <sub>50</sub> (96 hours) 30 mg/L (green algae, similar product)
<b>Persistence and Degradability:</b>	Glyphosate trimesium is not persistent in soil. Glyphosate trimesium is persistent in water.
<b>Mobility</b>	Glyphosate trimesium is immobile in soil
<b>Environmental Fate (Exposure):</b>	-
<b>Bioaccumulative Potential:</b>	Glyphosate trimesium has low bioaccumulation potential.

## Section 13: DISPOSAL CONSIDERATIONS

<b>Disposal Methods and Containers:</b>	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 not 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.
<b>Special Precautions for Landfill or Incineration:</b>	Not applicable

## Section 14: TRANSPORT INFORMATION

<b>LAND TRANSPORT</b>	ADG	Not a dangerous good in Australia	
<b>UN Number:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Special Precautions for User:</b>	None allocated
<b>Class:</b>	None allocated	<b>Hazchem Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated		

<b>SEA TRANSPORT</b>	Not a dangerous good by marine transport		
IMDG			
<b>UN Number:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Special Precautions for User:</b>	None allocated
<b>Class:</b>	None allocated	<b>Hazchem Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated	<b>Marine Pollutant:</b>	No

<b>AIR TRANSPORT</b> ICAO / IATA	Not a dangerous good by air		
<b>UN Number:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Special Precautions for User:</b>	None allocated
<b>Class:</b>	None allocated	<b>Hazchem Code:</b>	2X
<b>Subsidiary Risk:</b>	None allocated		

### Section 15: REGULATORY INFORMATION

<b>APVMA Product Number:</b>	62011
<b>Poisons Schedule (SUSDP):</b>	S5

### Section 16: OTHER INFORMATION

<b>Date of preparation or last revision:</b> June 2007
<b>Source of Data:</b> 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.
<b>Note:</b> This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions
<b>CONTACT POINT:</b> Regulatory Affairs Manager, Syngenta Crop Protection Pty Limited (02) 8876 8444
<b>24 HOURS EMERGENCY CONTACT: 1800 033 111</b>
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.