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SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: FUSILADE FORTE 128 EC Selective herbicide

Other Names: Proper shipping name: Environmentally Hazardous

Substance, Liquid, N.O.S. (Fluazifop-P-butyl).

Applicable only for marine and air transport

Product code: A12715A

Recommended Use: Selective herbicide for control of a wide range of grass weeds

Company Details: Syngenta Australia Pty Ltd

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: R36/38 Irritating to eyes and skin

Safety Phrases: -

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE

Chemical Identity of Pure Substance: Fluazifop-p-butyl

Synonym: PP55

CAS Number: 79241-46-6

MIXTURE			
Chemical Identity of Ingredients	CAS No	Proportion (% w/v)	
Fluazifop-p technical grade 128 g/L (present as the butyl ester)	79241-46-6	12.8	
Oleic acid ethoxylated	9004-96-0	10 - <30	
Octan-1-ol	111-87-5	<10	
Calcium alkyl benzene sulphonate	26264-06-2	<10	
Other ingredients determined not to be hazardous		to 100	

Section 4: FIRST AID MEASURES

Description of Necessary First Aid Measures:

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.

Ingestion: If swallowed, seek medical advice immediately

and show this container or label. DO NOT induce

vomiting.

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.

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.

Inhalation: Remove to fresh air. If breathing is irregular or

stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poisons

Information Centre immediately.

Poisoning Symptoms: Poisoning symptoms in laboratory animals were non-specific.

Medical Advice: There is no specific antidote available. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide extinguisher. DO NOT use direct jet of water.

Extinguishing media - large fires

Use alcohol-resistant foam or water spray. DO NOT use

direct jet of water.

Hazards from Combustion

Products:

This product contains combustible organic components that may burn and decompose during a fire producing dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to

health.

Special Protective Precautions

Wear full protective clothing and self-contained breathing

and Equipment for Fire Fighters: apparatus.

Section 6: ACCIDENTIAL RELEASE MEASURES

Emergency Procedures: In case of spillage it is important to take all steps necessary to

• Avoid eye and skin contact.

Avoid contamination of waterways

Methods and Materials for Containment and Clean Up:	(1) (2)	Keep all bystanders away. 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, soil, diatomaceous earth or vermiculite).
	(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 50 L of product bury in a secure landfill site.
		 For quantities greater than 50 L seek advice (use emergency contact number below) from the manufacturer 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 water

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Will irritate the eyes. Avoid contact with eyes and skin. When preparing spray and using the product wear: • elbow-length PVC gloves • face shield If product or spray on skin, immediately wash area with soap and water. 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 and contaminated clothing.
Conditions for Safe Storage:	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 / PERSONAL PROTECTION

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	Component	Exposure limit	Value type
National Exposure Standards:	No exposure standard allocated		
Syngenta Exposure Standards:	Fluazifop-p-butyl	0.5 mg/m ³	TWA
Biological Limit Values:	No biological limit allocated		
Engineering Controls:	No special requirements. Product is used outdoors.		
Personal Protective Equipment:	Will irritate the eyes. Avoid contact with eyes and skin. When preparing spray and using the product wear: • elbow-length PVC gloves • face shield If product or spray on skin, immediately wash area with soap and water. 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 and contaminated clothing.		

Not available

Not available

Not explosive

Not oxidising

0.945 g/mL at 20°C

Dispersible

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: **Boiling Point/Range:** dark brown liquid

Odour: solvent

pH:

Vapour Pressure: Not available

Viscosity: 54.5 cSt at 20°C

6.9 at 1 % (25°C)

Specific Gravity or

Density:

Freezing/Melting Point:

Solubility: in water

Flash point: 84°C (closed cup) **Explosive properties:**

Upper and Lower

Flammable (Explosive)

Limits in Air:

not highly flammable

Combustibility:

Oxidising properties:

Combustible C1

Ignition Temperature: Corrosiveness: Not available Not corrosive

Section 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under standard conditions.

Conditions to Avoid: None known. **Incompatible Materials:** None known.

Hazardous Decomposition

Products

Combustion or thermal decomposition will evolve toxic and

irritant vapours.

Hazardous Reactions: None known. Hazardous polymerization does not occur.

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.

 $(LD_{50} \text{ male rat} = 3680 \text{ mg/kg}, LD_{50} \text{ female rat} = 2451 \text{ mg/kg})$

Dermal toxicity: LOW TOXICITY

Tests on rats indicate this product has a low toxicity following skin

contact with the undiluted product. (LD₅₀ = >2000 mg/kg)

Inhalation: **LOW TOXICITY**

Tests on rats indicate this product is not harmful due to inhalation

of undiluted product. (LC₅₀ (4 h) >5.24 mg/L)

Skin irritation: **MODERATE IRRITANT(Rabbit)**

Eye irritation: SLIGHT IRRITANT (Rabbit)

Sensitisation: NOT A SKIN SENSITISER (Guinea Pig)

Chronic: Fluazifop-p-butyl technical has been extensively tested on laboratory mammals and in

> test-tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic, neurotoxic or reproductive effects. Embryo/foetoxic effects have been reported in rats. No adverse effects in humans are expected at levels below the occupational exposure

limit and when the product is handled and used according to the label.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Slightly Toxic to Fish LC_{50} (96 h) = 20 ppm (rainbow trout)*

Highly Toxic to algae

 E_bC_{50} (72 h) = 0.23 mg/L (Scenedesmus subspicatus) E_rC_{50} (72 h) = 0.84 mg/L (Scenedesmus subspicatus)*

Slightly Toxic to aquatic invertebrates

 EC_{50} (48 h) = 20 mg/L (*Daphnia magna* (water flea)*

Practically non-toxic to soil dwelling organisms EC_{50} (14 d) = >1000 mg/kg soil (*Eisenia foetida*)

Practically non-toxic to bees LD50 >200 µg/bee

*Based on test results obtained with a similar product

Persistence and Degradability: Fluazifop-P-butyl is not persistent in soil or water. There is

evidence of rapid hydrolysis in water and soil to the parent acid, which also rapidly degrades and is of lower intrinsic

toxicity.

Mobility Fluazifop-P-butyl is immobile in soil. **Environmental Fate (Exposure):** Incorporated into organic molecules

Bioaccumulative Potential: Fluazifop-p-buytl does not bioaccumulate

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	Triple or preferably pressure rinse containers before diposal. Add the rinsings to the 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:	None allocated
UN Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (FLUAZIFOP-P- BUTYL)	Packing Group:	
Class:	9	Marine Pollutant:	Marine pollutant

AIR TRANSPORT IATA-DGR	Not a dangerous good in the meaning of air transport regulations.		
UN Number:	None allocated	Subsidiary Risk:	None allocated
UN Proper Shipping Name:	None allocated	Packing Group:	None allocated
Class:	None allocated		

Section 15: REGULATORY INFORMATION

APVMA Product Number:	58521
Poisons Schedule (SUSDP):	6

Section 16: OTHER INFORMATION

Date of preparation or last revision: March 2013

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 Manager, Syngenta Australia Pty Ltd (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.

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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