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## **Safety Data Sheet**

Agri-Fos 600 $^{\mathrm{TM}}$ revision SDS 01 22 $^{\mathrm{th}}$ Feb 2017	
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Product Name	Agri-Fos 600™
Other Names	Phosphonic acid
Uses:	Bio pesticide (fungicide)
Chemical family	Salts of phosphorous acid
Chemical formula	KH2PO3 & K2HPO3
Chemical name	Mono- and di-potassium salts of phosphorous acid
Product description	Fungicide
Contact details of the supplier	of this Safety Data Sheet
Company Name	Agrichem
Company address	2 Hovey Rd Yatala QLD 4207 Australia
Phone number	+ 61 7 3451 0000
Emergency contact	Poison Information Centre Australia – <b>13 11 26</b>
2. HAZARD IDENTIFIC	ATION
Poisons Schedule (Australian)	Not listed in SUSMP
Globally Harmonised System (GHS) Hazard classification	<b>Not a</b> Hazardous according to the criteria of the GHS Classification and Labelling of Chemicals (GHS) and Safe Work Australia code of practice, preparation of Safety Data Sheets for hazardous chemicals.
Hazard Category	Non-hazardous substance, Non-dangerous goods,
Pictograms	None allocated
Signal word	None allocated
Hazard Statements	None allocated
Precautionary Statements	None allocated
<b>National Transport Commission</b>	(Australian)
Australian Code for the transpo	ort of Dangerous Goods by Road and Rail (ADG Code)
	cording to the criteria of the ADG Code for road or rail transport ref ADG Code, re

3. INFORMATION ON INGREDIENTS	
Formulation type: Direct synthesis	Product is formed by direct synthesis and to the current knowledge of the manufacturer & in concentrations present are not classified as hazardous to health or the environment, thereby do not require reporting in this chapter. Occupational exposure levels/limits if available are listed in chapter 8.

4. FIRST AID MEASURES Description of necessary measures according to routs of exposure	
Swallowed	Rinse mouth with water. Do NOT induce vomiting unless told to do so by a medical doctor. Drink plenty of water / milk if possible. Never give anything by the mouth to an unconscious patient. Seek medical advice.

Eye	Immediately wash in and around the eye area with water for 15 minutes. Eyelids to be held apart. Check for contact lenses, remove if easy to do so. Seek medical attention.
Inhalation	Avoid breathing mist, spray or vapour. If inhaled, remove to fresh air.
	Employ artificial respiration if indicated. Get medical attention.
Important potential health e	effects, symptoms, effects, both acute and delayed
Eye contact	No know significant effects or critical hazards
Inhalation	Exposure to decomposition products may cause a health hazard. Effects may be delayed following exposure.
Skin contact	No know significant effects or critical hazards
Ingestion	No know significant effects or critical hazards
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.
Medical Conditions Aggravated by Exposure	No Data Available
Have the product containe	r or label with you when calling the Poison Information Centre or a doctor or going for

treatment.

5. FIRE FIGHTING MEASURES	
General measures	Clear area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
Flammability conditions	Non-combustible, aqueous suspension.
Extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Fire and Explosion Hazard	Non-combustible. Containers if heated, resultant increase in pressure may cause container to burst.
Hazardous Products of Combustion	May include the following metal oxides, nitrogen phosphorus and potassium.
Special Fire Fighting Instructions	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
Flash point	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Auto ignition Temperature	No data available
Hazchem Code	No data available

6. ACCIDENTAL RELEASE MEASURES	
General Response Procedures	Avoid accidents, clean up immediately. Slippery when spilt. Increase ventilation. Avoid generating dust from dried product. Stop leak if safe to do so. Isolate the danger area.
Clean up Procedures	Land spill: Dike spill with using absorbent or impervious materials such as earth, sand or clay. Vacuum, shovel, pump or sweep up the product and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal. See containment section below.
	Spillage into water. Where possible, remove any intact containers from the water. Advice to local water authority that none of the affected water should be used for irrigation or

	for the abstraction of potable water until natural dilution returns water to normal environmental background levels.
Containment	Stop Leak if safe to do so. Isolate the danger area. Dike and absorb spill using inert absorbent materials such as earth, sand, clay, zeolite, or diatomaceous earth
Environmental Precautionary Measures	DO NOT let product reach drains or waterways. If product does enter a waterway , advise the Environmental Protection Authority and local Waste Management. The product is insoluble in water (see section 12)
Evacuation Criteria	Evacuate all unnecessary personal from immediate area
Personal Precautionary Measures	Personal involved in the clean-up should wear protective clothing as listed in section 8.

7. HANDLIN	7. HANDLING AND STORAGE	
Handling	Prevent against physical damage. Wash hands after handling this material. Good housekeeping, splash and dust (when product dries) prevention procedures should be followed to minimize exposure and accumulation. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Avoid contact with eyes, skin and clothing. Do not inhale product mist, spray or fumes. Your supplier can advise you on safe handling, please contact the supplier.	
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed if not in use. Inspect regularly for hazards such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Do not store with food stuffs. Use good housekeeping practices to prevent accumulation of product and follow sound cleaning techniques that will prevent contamination. Dry indoor storage is recommended. Provide appropriate ventilation and store containers such as to prevent any accidental damage.	
Container	Store in original packaging as approved by manufacturer	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
General	No specific exposure standards has been established for this product by Safe Work Australia
Exposure Limits	No Data
Biological limits	No information on biological limit values available for this product.
Engineering Measures	A system of local and or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust extraction / ventilation is preferred as it controls emissions at the source preventing dispersion of the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.
Personal Protection Equipment PPE	RESPIRATOR: Respirators should be used for conditions of use where exposure to spray or mist is apparent and engineering controls are not feasible.
	EYES: Use chemical safety goggles. Maintain eye wash fountain and quick drench facilities in work area (AS1336/1337). An emergency eyewash or water supply should be readily accessible to the work area.
	HANDS: Gloves, chemical resistant (AS2161).
	CLOTHING: Lab coat, apron or coveralls and safety footwear (AS3765/2210).
Work Hygienic practices	Thoroughly wash hands, forearms and face after using product, prior to eating, smoking using toilet or at end of work period. Contaminated clothing to be laundered prior to re-use

9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical state	Liquid
Appearance	Transparent

Odour	Slight, characteristic
Colour	Colour less
pH	7.5 – 8.0
Vapour pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling point	>100 degrees Celsius
Melting point	No Data Available
Freezing point	No Data Available
Solubility in water	Soluble
Specific gravity	1.55 – 1.60
Flash point	No Data Available
Auto Ignition Tem	No Data Available
Decomposition temp	No Data Available
Molecular weight	No Data Available
Particle size	No Data Available
Particle size distribution	Solution product, does not have particles
Viscosity	< 100 centipoise
<b>Note:</b> Physical data are typic	cal values but may vary from sample to sample. A typical value should not be

construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY	
General Information	This product is stable under normal handling and storage conditions.
Chemical Stability	Stable under ordinary conditions.
Conditions to Avoid	Excessive heat, do not store near heat or flames.
Materials to Avoid	<ol> <li>Strong bases</li> <li>Strong oxidising agents – may decompose</li> <li>Strong reducing agents – may decompose</li> </ol>
Hazardous Products of Decomposition	Under normal handling and storage, decomposition is not expected. See chapter 5 for further comments re involvement in fire.
Hazardous Polymerisation	No Data Available

11. TOXICOLOGICAL INFORMATION	
General Information	No deleterious effects expected if product is handled in accordance with this Safety Data Sheet and product label. Health effects may arise if product is mishandled
Eye Irritant	Non to minimal irritant
Ingestion	LD <sub>50</sub> >5000mg/kg
Inhalation	LC <sub>50</sub> >2.02mg/l
Skin Irritant	Minimal irritant
Reproduction	No know significant effects or critical hazards
Carcinogen Category	No know significant effects or critical hazards
Mutagenicity	Negative (salmonella typhimurium / Escherichia)

12. ECOLOGICAL INFORMATION	
General Ecotoxicity	Low as per USA EPA BioPesticide registration
Algal toxicity	No Data Available
Invertebrate toxicity	No Data Available
Vertebrate toxicity	Oncorhynchus mykiss LC50>100mg/I
Persistence/ Degradability	The methods for determining biological degradability are not applicable to inorganic substances.
Mobility	Water soluble.
Environmental Fate	Do NOT let product reach waterways, drains and sewers
Bioaccumulation	Not Data Available
Environmental impact	No Data Available

## 13. DISPOSAL CONSIDERATIONS

General Information	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
Special Precautions for Landfill	Small quantities of this product can usually be disposed of at Liquid Waste Disposal sites. No special disposal treatment is required, but local authorities should be consulted about any specific local requirements. Larger volumes of this product are not recommended to be sent to Liquid Waste Disposal sites. Such product should, if possible, be used for an appropriate application.

14. TRANSPORTATION INFORMATION  Land Transport, Australian Dangerous Goods Code (ADG Code) for transport by road and rail.		
Proper Shipping Name	Compounded product, no data available	
Class	Compounded product, no data available	
EPG	Compounded product, no data available	
UN Number	Compounded product, no data available	
Packaging group	Compounded product, no data available	

15. REGULATORY INFORMATION	
General information	Not a Dangerous goods under ADG Code
Poisons Schedule	Not listed SUSMP
APVMA registration No	54430

## 16. OTHER INFORMATION

The information contained in this SDS is by way of general comment only. Because conditions of use, suitability of product and application conditions are beyond the control of Agrichem, this SDS does not offer any advice in respect to any product. The authors and Agrichem Manufacturing Industries Pty Ltd hereby disclaim any liability to any person, property, or thing in respect of any consequence of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon whole or part of the contents of this SDS.

## **KEY**

- < Less than
- > Greater than
- a.i. Active ingredient

**ADG Code** Australian dangerous goods code

**AICS** Australian Inventory of Chemical Substances

ATE Acute toxicity extimation

**atm** Atmosphere

**CAS** Chemical Abstract Service (registry number)

Cm<sup>2</sup> Square Centimetres

CO2 Carbon Dioxide

deg C (°C) Degrees Celsius

**EPA** Environmental Protection Agency based in each state of Australia

**g** Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

**GRAS** Generally recognised as safe

**HSIS** Hazardous substances information system

**HSNO** Hazardous substances and New Organism

**HDPE** High density polypropylene

**IDLH** Immediately Dangerous to Life and Health

Immiscible Liquid are insoluble in each other

inHg inch of Mercury InH20 Inch of Water

K Kelvin kg Kilogram

kg/m³ Kilogram per Cubic Metre

LC<sub>50</sub> LC stands for lethal concentration, LC<sub>50</sub> is the concentration of a product in air that will cause the death of 50% of a population of test animals. Product is normally inhaled for between 1 and more typically 4 hours LD<sub>50</sub> LD stands for lethal dose. LD<sub>50</sub> is the amount of product given in a single dose, causing death in 50% of a population of test animals.

LDLo The lowest amount of a solid or liquid material reported to have caused the death of animals or humans

m<sup>3</sup> Cubic Metre mbar Millibar **mg** Milligram

mg/24H Milligrams per 24 hours mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre Misc or Miscible Liquids from one homogeneous liquid phase regardless of the amount of either component present

**End of SDS** 

**mm** Millimetre

mmH<sub>2</sub>O Millimetres of Water mPa.s Millipascals per Second MSHA Mine safety and health administration

N/A Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

NOHSC National Occupational Health and Safety Commission

**OECD** Office for Economic Co-operation and Development

**PEL** Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

**PPE** personal protective equipment

ppm Parts per Million

ppm/2h Parts per million per 2 hours ppm/6h Parts per million per 6 hours psi Pounds per square inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure **SCBA** Self Contained Breathing Apparatus

**SWA** Safe Work Australia **STEL** Short Term Exposure Limit

**SUSMP** Standard for the uniform scheduling

of medicines and poisons

TVL Threshold Limit Value TWA Time Weighted Average

**UN** United Nations

wt Weight