



SAFETY DATA SHEET

MAXamFLO

Identification of the Material & Supplier

Product Name: MAXamFLO
Other Names: UAS, Liquid fertilizer, Urea Ammonium Sulphate solution
Recommended Use: Liquid fertilizer
Supplier: Summit Fertilizers
29 Ocean St
Kwinana Beach WA 6167
Telephone: 9439 8999

Hazards Identification

Hazards Classification: MAXamFLO is not classified as hazardous according to Safe Work Australia criteria
Risk Phrase: MAXamFLO is not classified as a Dangerous Good according to the ADG Code

Composition/Information on Ingredients

Chemical Identity: Urea Ammonium Sulphate solution
Proportion of Ingredients: Contains ammonium sulphate and urea in proportions that render the product to not be hazardous or classed as a dangerous good according to the Dangerous Goods Code. Ammonium Sulphate < 10-30%. Urea 30-50%. Water 40%

CAS Number

First Aid Measures

Eye Contact: Immediately flush with fresh water for at least 15 minutes. Hold eyes open while flushing with water. Seek medical attention if irritation persists.
Skin Contact: Immediately remove contaminated clothing and shoes. Flush skin with fresh water for at least 15 minutes. Do not reuse contaminated clothing without laundering. Seek medical attention if irritation persists.
Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. Seek medical attention immediately.
Ingestion: If victim is conscious and alert, rinse mouth thoroughly and give water or milk to drink. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek medical attention immediately.

Fire Fighting Measures

Flammability: MAXamFLO is non flammable and does not support combustion.
Suitable Extinguishing Media: Not applicable
Hazards from Combustion Products: Wear self-contained breathing apparatus with full protective clothing. Fire will cause MAXamFLO to decompose, giving off acrid smoke, toxic fumes of nitrogen oxides, sulphur oxides, ammonia, carbon dioxide and carbon monoxide.
Hazchem Code: None allocated.



Accidental Release Measures

Emergency Procedures	Isolate the area and deny entry to nonessential personnel. Emergency responders and/or clean up personnel should wear appropriate protective clothing and equipment.
Methods and Materials for Containment & Cleanup	Prevent from entering drains or waterways. Contain with sand, earth or vermiculite. Collect contaminated material promptly. Wash down with water and prevent run off into drains, sewers or waterways. Dispose of on a farm, or authorized waste facility, in accordance with Department of Environment requirements.

Handling & Storage

Precautions for Safe Handling	MAXamFlo is not readily combustible under normal conditions and is not considered a fire risk. Avoid heating in a confined space. Avoid pumping against a shut valve as overheating may result.
Conditions for Safe Storage	Store in a dedicated clean tank inside a bund. Avoid contact with other chemicals and evaporation of water from the product.
Storage Incompatibilities	Corrosive. Keep away from copper, zinc, aluminium (or their alloys), mild steel, concrete, foodstuffs and foodstuff containers.

Exposure Controls/Personal Protection

National Exposure Controls	No exposure standard allocated.
Engineering Controls	Use in open or well ventilated areas. Corrosive to copper, zinc, aluminium (or their alloys), mild steel and concrete. Do not use these materials for construction of handling systems or storage containers
Personal Protective Equipment	Wear PVC gloves, chemical safety glasses, PVC jacket and pants. Where mist is a problem, use P2 type respirator.

Physical & Chemical Properties

Appearance	Colourless liquid
Odour	Ammoniacal odour
pH of 10% Solution	6-6.5
Vapour Pressure	Does not exert significant vapour pressure
Boiling Point	Approximately 105 °C at 100kPa
Melting Point	0°C
Solubility	Completely soluble in water
Specific Gravity	1.26 t/ m ³
Bulk Density	

Stability & Reactivity

Stability	Stable at ambient conditions
Reactivity	Reactive with mineral acids, chlorine, oxidizing agents and alkalis.
Incompatible Materials	Corrosive to copper, zinc, aluminium (or their alloys), mild steel and concrete.
Decomposition Products	Fire may cause the product to decompose, giving off acrid smoke and toxic and flammable fumes of nitrogen oxides, sulphur oxides, ammonia, carbon dioxide and carbon monoxide.

Toxicological Information

Health Effects	Presents moderate toxicity if swallowed. Not classed as hazardous according to Worksafe Australia. MAXamFlo contains nitrates, which may be reduced to nitrites by intestinal bacteria. Nitrites may affect the blood (methaemoglobinaemia) and blood vessels (vasodilation and a fall in blood pressure).
Toxicity Data	Ammonium sulphate LD50 (oral): 2,840 mg/kg (rat), 640mg/kg (mouse) Urea LD50 (oral): 8,471 mg/L (rat)



Ecological Information

Ecotoxicity	Not harmful under normal conditions of responsible use.
Mobility	May leach into groundwater if released to soil. Will evaporate water content readily.
Persistence & Degradability	Non persistent. Will promote algal growth and may degrade water quality and taste. Will dissolve readily and disperse in water.
Bioaccumulative Potential	Unknown

Disposal Considerations

Disposal Methods & Containers	Dispose of on a farm, or authorized waste facility in accordance with statutory requirements. May be broadcast on farm as fertilizer using proper agriculture and soil management.
-------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Transport Information

UN Number	None allocated
UN Proper Shipping Name	None allocated
Class & Subsidiary Risk	None allocated
Packing Group	None allocated
Hazchem Code	None allocated

Regulatory Information

Australian Regulatory Information	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). All chemicals listed on the Australian Inventory of Chemical Substances (AICS).
-----------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Other Information

Key/Legend	NOHSC	National Occupational Health and Safety Commission
	USEPA	United States Environmental Protection Authority
	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
	ACGIH	American Conference of Government Industrial Hygienists
	OECD	Organisation for Economic Cooperation and Development
	ES-TWA	Exposure Standard – Time weighted average
	ES-STEL	Exposure Standard – Short term exposure level
	ES-Peak	Exposure Standard – Peak level
	LDLo	The lowest dose in an animal study in which lethality occurred.
	LD50	Lethal dose 50. The single dose of a substance that causes death of 50% of an animal population from exposure other than inhalation
	t/m ³	Tonnes per cubic metre
	mg/m ³	Milligrams per cubic metre
	mg/kg	Milligrams per kilogram
	pH	Hydrogen ion concentration on a scale of 0-14

Disclaimer

The information contained in this SDS is offered in good faith as accurate but does not purport to be all-inclusive. Health and safety precautions in this SDS may not be adequate for all individuals and/or situations. It is the user's responsibility to determine the suitability of any material for a specific purpose, adopt such precautions as may be necessary and comply with all applicable laws and regulations. Summit Fertilizers reserves the right to make changes to SDS data without notice.