

Finaleboost (Fertiliser) Safety Data Sheet Version 1.1 Australian Poisons Information (24 hours / 7 days) 🖀 13 11 26

1.0 Identification	
Product Identifier	Finale Boost
Other Means of	APTUS Finale Booster Liquid Fertiliser
Identification	
Recommended Use and	Liquid fertiliser, dilute and use as directed.
Restrictions on use	
Details of Importer	APTUS PLANT TECH Australia
-	Unit 1/11 Didswith St, East Brisbane QLD 4169
Emergency Phone Number	Australian Poisons Information (24 hours / 7 days) 🖀 13 11 26

2.0 GHS Hazard identification

Classification of The	(nil)
Hazardous Chemical	
Signal Word	(nil)
Hazard Statement	May cause skin irritation
	May cause eye irritation
Precautionary Statements	Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment. IF SKIN irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing.
GHS Pictograms	None allocated

3.0 Ingredients / Composition %w/w

Ingredient Name/Nature	<2	2>10	>10	>20	>30	>40	>50	>60	>70	>80	>90	>100
Potassium thiosulfate												
CAS 10294-66-3												
Proprietary Ingredients												
determined to be hazardous at												
that concentration												

4.0 First Aid Measures

First Aid Instructions	Consider your own safety first.
Swallowed	Rinse mouth and SPIT, if conscious give a glass of water. For advice, contact a Poisons Information Centre e.g. phone Australia 13 11 26; or a doctor.
Еуе	Rinse cautiously with running water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.
Skin	Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
Inhaled	Remove to fresh air; rinse mouth and spit, For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; or a doctor.
Symptoms caused by exposure	Local irritation effects can be anticipated. Expected to have laxative effects if swallowed. Large exposures can cause dehydration and electrolyte disturbances secondary to the osmotic effects.
Medical Attention / Special Treatment	Following ingestion oral hydration and observation may be merited.

5.0 Fire Fighting Measures

Extinguishing media	As merited by packaging &/or surrounding materials, Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific Hazards arising from the chemical	None indentified
Special protective equipment and precautions for fire fighters HAZCHEM	Wear self-contained breathing apparatus for firefighting if necessary.



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6.0 Accidental Release Measures

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Personal precautions,	Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing
protective equipment and	vapours or mist. Wash hands and exposed skin thoroughly after handling.
emergency procedures	
Environmental precautions	Concentrate as supplied should not enter to waterways, may clause localised effects.
Methods and materials for	Absorb liquid onto inert absorbent and dispose as solid waste.
containment and cleaning	Dilute and contain residue where possible.
up	Take off contaminated clothing and wash it before reuse.
•	

7.0 Storage and Handling

7.0 Storage and Handling	
Precautions for Safe Handling	Do not store diluted product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapours or mist. Wash hands and exposed skin thoroughly after handling.
Safe Storage Practice	Keep out of reach of children. Keep in original container.
- Avoid	Do not mix with other chemicals.
- Control	Avoid contamination.
- Maintain	Keep tightly closed in original container.
- Other	No data

8.0 Exposure Controls / Personal Protection

National Exposure Standards	None identified
Control Banding	Band Zero Band 1 - good Band 2 - use Band 3 Other Household or industrial local exhaust enclose the Consumer Use hygiene practice venitiation process
Engineering Controls	General industrial hygiene practice.
PPE	Wear protective gloves/eye protection/face protection

9.0 Physical & Chemical Properties

Appearance	Brown coloured solution	Partition Co-efficient	Not determined
		n-Octonol/water	
Odour	mild	Solubility	Water soluble
pH	6.5 to 7	Vapour Pressure	Not determined
Melting / Freezing Pt	Not determined	Vapour Density	Not determined
Boiling Point	Not determined	Relative Density	~1.3g/mL
Flash Point	Not determined	Auto-ignition Temp	Not determined
Evaporation Rate	Not determined	Decomposition Temp	Not determined
Flammability	Not classified as flammable	Viscosity	Not determined
Explosive Limits	Not determined	Other	Not determined

10.0 Stability & Reactivity

Reactivity	Anticipated as being stable under conditions of use.
Chemical Stability	Anticipated as being stable under conditions of use.
Possibility of Hazardous	None identified
Reactions	
Conditions to avoid	Excessive heat, avoid freezing.
In compatible materials	It can generate toxic gases when in contact with inorganic sulfide, strong reducing agents.
Hazardous Decomposition	None identified
Products	

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11.1 Known Toxicological Information (CONFLICTING DATA EXISTS) ~60% Potassium thiosulfate CAS 10294-66-3

Ingredient Name / Type	Data
Acute Toxicity	A toxic dose has not been established. Theoretically, a massive ingestion could cause hypernatremia, but the required dose is not known. Hyperkalemia and ECG abnormalities developed in 2 patients after ingesting 6 tablespoons of cream of tartar (potassium bitartrate) which is approximately 3.5 times the daily FDA recommendation of at least 4.7 grams (120 mmoles) of potassium.
Skin Corrosion / Irritation	CONFLICTING DATA EXISTS
Serious Eye Damage Irritation	ECHA (https://echa.europa.eu/brief-profile/-/briefprofile/100.030.593) and data obtained from ECHA republished on PUBCHEM indicate that the substance causes both eye and skin irritation however the animal studies cited on ECHA indicate for eyes "not irritating" and for skin 'Not irritating". Suppliers SDS and other resources also indicate non-irritating.
Respiratory or skin sensitisation	Based on available data unlikely to be sensitising.
Germ cell mutagenicity	Based on available data; no evidence of toxic effects on reproduction.
Carcinogenicity	Based on available data; unlikely. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Drug use classifies this substances as Category C.
Specific Target Organ	Potassium Thiosulphate is commonly used as a saline laxative substance. Saline cathartics are
Toxicity – single	poorly absorbed from the gastrointestinal tract hence, systemic toxicity is unlikely unless massive
exposure	amounts have been ingested. Large exposures can cause dehydration and electrolyte
Specific Target Organ Toxicity (STOT) –	disturbances secondary to the osmotic effects.
repeated exposure	
Aspiration hazard.	As with any liquid
Skin - Acute	Conflicting data, may cause (reversible) skin irritation
Inhaled - Acute	Bo adverse effects anticipated.
Swallowed - Acute	Potassium Thiosulphate is commonly used as a saline laxative substance.
Eye - Acute	Conflicting data, may cause (reversible) eye irritation
Early Onset Symptoms	No data
Delayed Health Effects from exposure	No data
Exposure Level & Health Effects	None anticipated from use as directed on the label
Interactive effects	Two different oxidation routes of sulfite to sulfate have been identified in the human
Other	polymorphonuclear leukocytes; (i) the pathway via sulfite oxidase and (ii) oxidation via an one electron oxidation step with an intermediate formation of sulfur trioxide radicals. Different pathways will substantially effect metabolism and toxicology; individual variation in sulfite oxidase activity with the contribution of the trioxide radical pathway expected to be high in individuals with low sulfite oxidase activity.

12.0 Ecological Information

Ecotoxicity	Not classified as ecotoxic
(as supplied)	
Persistence &	Biodegradable
Biodegradability	
Bioaccumulative Potential	no potential for bioaccumulation
Mobility in soil	No data identified
Other effects	No relevant data identified

13.0 Disposal Considerations

Disposal Containers & Methods	Rinse container; dispose as permitted by local jurisdiction.	
Physical/chemical properties that may affect disposal options.	None identified	
Effects of sewage disposal.	Diluted solutions are unlike to contribute to issues of concern	
Special precautions for incineration or land fill.	Diluted solutions are unlike to contribute to issues of concern	

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14.0 Transport Information

UN Number	Proper Shipping Name / Technical Name	Transport Hazard Class	Packaging Group
nil	nil	nil	nil
Environmental Hazards for Transport Purposes		Special Precaution	s for user
nil		nil	

15.0 Regulatory Information

Montreal Protocol	Stockholm Convention	Rotterdam Convention	Basel Convention	MARPOL
Not applicable	Not included	Not Included	Not Included	Not Included
SUSMP	Not scheduled	Not scheduled		
Prohibitions / Licensing	U	Biological component requires BICON permit. No other restrictions identified		
Restrictions APVMA	Excluded by purpose			
NICNAS	All ingredients are i	ncluded in AICS		

16.0 Other Information

16.1 Consumer & General Usage Information

16.1 Consumer & General Usage Information	
Directions for use	Dilute and apply as directed on the label.
Directions for	Rinse under running water.
Removal	
Nano Materials	None identified
Animal Derived	None identified
Ingredients	

16.2 SDS Preparation

Date Prepared	24 th May 2018.
Changes Made	First edition for Australia
Reference Standards	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. ISBN 978-0-642-33311-7. GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Fourth revised edition
Resources Relied upon include	Hazardous Substances Data Bank (HSDB) https://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB Suppliers' SDS; RTECS Toxicity Database; ECHA; IRAC; CDC NIOSH, HCIS, Safework Australia GHS Hazardous Chemical Information List. Information provided by manufacturer(s).

Disclaimer: This SDS provides safety data only for the product and circumstances of use nominated. The SDS summarises our best knowledge of the specific, well-known and equivocally demonstrated health and safety hazard information pertaining to workplace use of the nominated substance(s) however the author expressly disclaims that the SDS is complete, is a representation or is a guarantee. Published and other resources have been relied upon, and in some cases conflicting information has been identified. Each user should read the SDS and consider the information in the context of their specific conditions and circumstances, and in conjunction with other products. If clarification is required or further information sought in order to make a risk assessment the user should contact the nominated sponsor company. The responsibility for products sold is subject to our standard terms and conditions that are available on request.

16.3 Key abbreviations or acronyms used

10.0 100 000100	adons of defolying used
%	Percent (parts per hundred)
*C or °C	degrees Celsius
<	less than
>	greater than
ACCC	Australian Competition and Consumer Commission
ADG	Australian Dangerous Goods
AICS	Australian Inventory of Chemical Substances
APVMA	Australian Pesticides and Veterinary Medicines Authority
AS	Australian Standard
ASCC	Australian Society of Cosmetic Chemists
bw	Body weight (nominally a human adult of 60kg is applied)
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (Registry Number)
CC	cubic centimetres (equivalent to mL)
COD	Chemical Oxygen Demand
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CMR

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CMR substances: Article 15 of the EU Cosmetics Regulation 1223/2009 contains provisions on the use of CMR in cosmetic products. Typically substances classified as CMR substances Cat 1A, 1B, or 2 under Part

	3 of Annex IV Regulation (EC) No 1272/2008 are banned for use in cosmetic products	
COSING	The European Commission database with information on Cosmetic Ingredients & Substances Dangerous	
	Goods	
EINECS	European Inventory of Existing Commercial Chemical Substances (Identifying Number)	
dw	Dry weight	
DNEL	Derived No effect level	
EU	Europe / European	
FSANZ	Food Standards Australia New Zealand	
g	gram	
GHS	Globally Harmonised System (safety symbols and labelling)	
GMO	Genetically modified organism	
h or hr	Hour	
HAZCHEM	Emergency action code of numbers and letters that provide information to emergency services especially	
	fire fighters	
HSIS	The Safe Work Australia Hazardous Substances Information System	
IATA	The International Air Transport Association	
IMAP	NICNAS Inventory Multi-tiered Assessment and Prioritisation	
ICAO	The International Civil Aviation Organization	
IFA	The International Fragrance Association	
INCI	The International Pragrance Association The International Nomenclature of Cosmetic Ingredients	
	······	
kg	kilogram	
L	Litre	
LC ₅₀	LC ₅₀ is the average concentration of a material (by a defined route) that causes the death of 50% (one half) of a group of (defined) test animals. Normally quoted in mg/kg body weight.	
LD ₅₀	LD_{50} is the average dose of a material, given all at once, which causes the death of 50% of a group of	
	(defined) test animals. Normally quoted in mg/kg body weight. Products with a LD ₅₀ of less than 5000mg/kg	
	are scheduled poisons in Australia (see SUSMP)	
LD _{LO}	Lethal Dose Low, is the minimum amount of a material shown to be lethal to a specified type of animal.	
	Typically quoted in mg/kg body weight.	
m or min	minute	
m ³	cubic metre	
Max or max	maximum	
max of max	milligram	
Min or min	minimum	
mL	millilitre	
mm Ha	millimetre millimetre of Mercury	
mm Hg		
MOS MRL	Margin of Safety Maximum Residue Limit	
MSDS	Material Safety Data Sheet (see also SDS)	
Nano	Nano(sized) material / Nano Technology;industrial materials (including a cosmetic ingredient)	
	comprising 10% or more by composition that has been intentionally produced, manufactured or engineered	
	to have either an internal or external property that is a size range typically between 1 nm and 100 nm.	
ng	 nanogram LD₅₀ is the average dose of a material, given all at once, which causes the death of 50% of a group of 	
LD ₅₀		
	(defined) test animals. Normally quoted in mg/kg body weight. Products with a LD ₅₀ of less than 5000mg/kg	
	are scheduled poisons in Australia (see SUSMP)	
LDLO	Lethal Dose Low, is the minimum amount of a material shown to be lethal to a specified type of animal.	
m	Typically quoted in mg/kg body weight.	
m or min	minute	
m ³	cubic metre	
Max or max	maximum	
mg	milligram	
Min or min		

 mg
 milligram

 Min or min
 minimum

 mL
 millilitre

 mm
 millimetre

 mm Hg
 millimetre of Mercury

 MOS
 Margin of Safety

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MRL	Maximum Residue Limit
MSDS	Material Safety Data Sheet (see also SDS)
Nano	Nano(sized) material / Nano Technology;industrial materials (including a cosmetic ingredient) comprising 10% or more by composition that has been intentionally produced, manufactured or engineered to have either an internal or external property that is a size range typically between 1 nm and 100 nm.
ng	nanogram
NICNAS	The National Industrial Chemicals Notification and Assessment Scheme (AUSTRALIA)
NIOSH	The National Institute for Occupational Safety and Health (USA)
NOAEL	No observed Adverse Effects Limit
NOHSC	National Occupational Health and Safety Commission (AUSTRALIA)
NOS	Not otherwise specified
NZS	New Zealand Standard
OECD	Organization for Economic Co-operation and Development (Test Method number)
OSHA	The Occupational Safety and Health Administration (USA)
Perm.	Permethrin (Active ingredient of this formulation)
PEL	Permissible Exposure Limit
рН	(pH) A measure of acidic (less than 7) or alkalinity (above 7); extreme values represent extreme acidic or alkaline conditions. Typically products with a pH less than three or greater than 11 are scheduled poisons (SUSMP)
PNEC	Predicted no effect concentration
ppb	parts per billion
PPE	Personal Protective Equipment
ppm	parts per million
RTECS	The Registry of Toxic Effects of Chemical Substances
S2	Schedule 2, SUSMP Pharmacy Medicine – Substances, the safe use of which may require advice from a pharmacist and which should be available from a pharmacy or, where a pharmacy service is not available, from a licensed person.
S 3	Schedule 3, SUSMP Pharmacist Only Medicine – Substances, the safe use of which requires professional advice but which should be available to the public from a pharmacist without a prescription.
S4	Schedule 4, SUSMP Prescription Only Medicine , or Prescription Animal Remedy – Substances, the use or supply of which should be by or on the order of persons permitted by State or Territory legislation to prescribe and should be available from a pharmacist on prescription.
S5	Schedule 5, SUSMP Caution – Substances with a low potential for causing harm, the extent of which can be reduced through the use of appropriate packaging with simple warnings and safety directions on the label.
S6	Schedule 6, SUSMP Poison – Substances with a moderate potential for causing harm, the extent of which can be reduced through the use of distinctive packaging with strong warnings and safety directions on the label.
S7	Schedule 7, SUSMP Dangerous Poison – Substances with a high potential for causing harm at low exposure and which require special precautions during manufacture, handling or use. These poisons should be available only to specialised or authorised users who have the skills necessary to handle them safely. Special regulations restricting their availability, possession, storage or use may apply.
S 8	Schedule 8, SUSMP Controlled Drug – Substances which should be available for use but require restriction of manufacture, supply, distribution, possession and use to reduce abuse, misuse and physical or psychological dependence.
S9	Schedule 9, SUSMP Prohibited Substance – Substances which may be abused or misused, the manufacture, possession, sale or use of which should be prohibited by law except when required for medical or scientific research, or for analytical, teaching or training purposes with approval of Commonwealth and/or State or Territory Health Authorities.
S10	Schedule 10, SUSMP Substances of such danger to health as to warrant prohibition of sale, supply and use - Substances which are prohibited for the purpose or purposes listed for each poison.
SCCP	Scientific Committee on Cosmetic Products and Non-Food Products (EUROPE)
SDS	Safety Data Sheet, (previously called MSDS) now SDS under GHS
STEL	Short Term Exposure Limit
SUSMP	Standard for the Uniform Scheduling of Medicine & Poisons (AUSTRALIA) also Poisons Standard. Poisons are not scheduled on the basis of a universal scale of toxicity. Although toxicity is one of the factors considered, and is itself a complex of factors, the decision to include a substance in a particular Schedule also takes into account many other criteria such as the purpose of use, potential for abuse, safety in use and the need for the substance.
T1 or TI	NICNAS IMPA Framework Low risk; chemicals that are not expected to pose a concern to workers, public health or the environment

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T2 or TII	NICNAS IMPA Framework Assessable risk; products not classified as T1 risk information on a substance-
	by-substance or chemical category-by-category
TGA	Therapeutic Goods Administration (AUSTRALIA)
TLV	Threshold Limit Value
TWA	Time Weighted Average
ug	microgram
uL	microlitre
UN	United Nations (number)
US or USA	The United States of America

End of SDS