



1.0 Identification

Product Identifier	APTUS Base Boost (Pellets)
Other Means of Identification	Base Boost Powder – Pellet fertiliser
Recommended Use and Restrictions on use	Plant fertiliser
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 Hazardous Chemical	NOT classified as hazardous
Signal Word	None applies
Hazard Statement	None applies
Precautionary Statements	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
GHS Pictograms	None applies

3.0 Ingredients / Composition %w/w

Ingredient Name/Nature	<2	2>10	>10	>20	>30	>40	>50	>60	>70	>80	>90	>100
Proprietary Ingredients determined to be hazardous at that concentration												

4.0 First Aid Measures

First Aid Instructions	Danger? Response? Yes ⇒ Make comfortable, monitor ☞ No Send for Help. Airway? Breathing? No ⇒ CPR (30 compress: 2 breaths). Defibrillation. ☞ Yes (Recovery Position & Monitor)
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.
Eye	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	None typical
Medical Attention / Special Treatment	No special treatment anticipated

5.0 Fire Fighting Measures

Extinguishing media	As merited by packaging &/or surrounding materials, including Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Specific Hazards arising from the chemical	None identified
Special protective equipment and precautions for fire fighters HAZCHEM	None identified

6.0 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep only in original container. Wash hands thoroughly after handling. Avoid breathing dust
Environmental precautions	None identified.
Methods and materials for containment and cleaning up	Sweep up spillage and dispose as merited.

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7.0 Storage and Handling

Precautions for Safe Handling	No specific precautions required.
Safe Storage Practice	Keep container closed.
- Avoid	Mixing with other chemicals
- Control	Generation of dust.
- Maintain	Keep closed
- Other	Keep out of reach of children.

8.0 Exposure Controls / Personal Protection

National Exposure Standards	None applied				
Control Banding	Band Zero – Household or Consumer Use	Band 1 – good industrial hygiene practice	Band 2 – use local exhaust ventilation	Band 3 – enclose the process	Other
Engineering Controls	No specific controls anticipated				
PPE	As required in workplace.				

9.0 Physical & Chemical Properties

Appearance	Brown/grey pellets	Partition Co-efficient n-Octanol/water	not established
Odour	Mild	Solubility	water soluble
pH	7 - 8	Vapour Pressure	not established
Melting / Freezing Pt	Na (solid)	Vapour Density	not established
Boiling Point	Na (solid)	Relative Density	~0.85 g/mL
Flash Point	Na (solid)	Auto-ignition Temp	not established
Evaporation Rate	Na (solid)	Decomposition Temp	not established
Flammability	any dust may be combustible	Viscosity	not established
Explosive Limits	not established	Other	not established

10.0 Stability & Reactivity

Reactivity	None anticipated
Chemical Stability	None anticipated
Possibility of Hazardous Reactions	None anticipated
Conditions to avoid	avoid contamination with other products
In compatible materials	Can generate toxic gases when in contact with inorganic sulfide, strong reducing agents.
Hazardous Decomposition Products	None identified.

11.0 Known Toxicological Information

Ingredients not classified as toxic

12.0 Ecological Information

Ecotoxicity (as supplied)	None expected
Persistence & Biodegradability	Biodegradable
Bioaccumulative Potential	None expected
Mobility in soil	No data
Other effects	No data

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 unlikely to contribute to issues of concern
Special precautions for incineration or land fill.	Diluted solutions are unlikely 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 Precautions 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			
Prohibitions / Licensing Restrictions	None identified			
APVMA	Excluded by purpose			
NICNAS	All ingredients are included in AICS			

16.0 Other Information

16.1 Consumer & General Usage Information

Directions for use	Apply as directed on the label.
Directions for Removal	Rinse under running water.
Nano Materials	None identified

16.2 SDS Preparation

Date Prepared	22 nd 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; IRAC; CDC NIOSH, HSIS, 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

%	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	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 Nomenclature of Cosmetic Ingredients
kg	kilogram
L	Litre
LC₅₀	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.
LD₅₀	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
m³	cubic metre
Max or max	maximum
mg	milligram
Min or min	minimum
mL	millilitre
mm	millimetre
mm Hg	millimetre of Mercury
MOS	Margin of Safety
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
pH	(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

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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.
S3	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.
S8	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
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