

SAFETY DATA SHEET

VALUE PLUS POTASSIUM CITRATE

SECTION 1 IDENTIFICATION

Product Name: VALUE PLUS POTASSIUM CITRATE
Company Product Code: VAL6470, VAL6471, VAL6472
Other Names: Citric Acid, Tripotassium Salt, Monohydrate; Potassium Citrate Monohydrate
Recommended Use/Restrictions: Medicine (antacid, treatment and management of gout and arrhythmia, if the patient is hypokalemic, treatment of urinary calculi, kidney stones), sequestrant, stabilizer, buffer in foods and soft drinks, in preservation of cut flowers and laboratory reagent.

Company: Value Plus Animal Health Care Products Pty Ltd
Address: 6 Interchange Drive, Eastern Creek NSW 2766
PO Box 335, Horsley Park NSW 2175
W: www.valueplus.net.au E: info@valueplus.net.au
Telephone Number: +61 (0)2 8868 8688 (Mon-Thurs 9:00am – 5:00pm; Fri 9:00am – 4:30pm)
Fax Number: +61 (0)2 8868 8647
Emergency Telephone Number: Poisons Information Centre 13 11 26

SECTION 2 HAZARDS IDENTIFICATION

Hazard Classification: NOT Hazardous according to the criteria of ASCC [NOHSC:1008(2004)]
Signal Word: No data available
Hazard Statement: Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).
Precautionary Statement: No data available

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion (%)</u>
Tri-Potassium Citrate Monohydrate	6100-05-6	100.0

SECTION 4 FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Swallowed:

Necessary First Aid Measures -

Rinse mouth with water. Give water to drink.

Symptoms Caused by Exposure -

Persons with pre-existing gastro-intestinal disorders may be more susceptible to the effects from this product upon exposure. Non-toxic if swallowed. In therapeutic amounts, may cause mouth ulcers to develop. Extremely large oral doses may produce gastro-intestinal disturbances; this is because of its some-what caustic effect on the stomach lining.

Medical Attention and Special Treatment -

Give water to drink. Do NOT induce vomiting. If symptoms develop, seek medical attention. Treat symptomatically based on individual reactions of patient and judgement of doctor.

Eye:

Necessary First Aid Measures -

Immediately flush eyes with plenty of water holding eyelids open.

Symptoms Caused by Exposure -

Dust may cause mild eye irritation, possible reddening.

Medical Attention and Special Treatment -

If irritation persists, seek medical attention. Treat symptomatically based on individual reactions of patient and judgement of doctor.

Skin:

Necessary First Aid Measures -

Remove contaminated clothing. Flush affected area with plenty of water.

Symptoms Caused by Exposure -

Excessive contact with the powder may cause mild skin irritation and redness.

Medical Attention and Special Treatment -

If irritation persist, seek medical attention. Treat symptomatically based on individual reactions of patient and judgement of doctor.

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Inhaled:*Necessary First Aid Measures -**Symptoms Caused by Exposure -**Medical Attention and Special Treatment -*

Remove victim from exposure to fresh air.

Excessive inhalation of dust may cause mild irritation to the respiratory tract.

If not breathing, apply artificial respiration. If breathing is difficult, give oxygen.

Seek medical attention. Treat symptomatically based on individual reactions of patient and judgement of doctor.

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment: In case of fire, appropriate extinguishing media include;
Small fires - use dry chemical, carbon dioxide, water spray or foam.
Large fires - use water spray/fog or foam. Use water spray to cool fire-exposed containers.

Specific Hazards**Arising from the Chemical:**

Combustible Solid. May burn but does not ignite readily. Dust cloud may be sensitive to static discharge. Potential dust explosion hazard. Incompatible with oxidizing agents and sources of ignition. Containers may explode upon heating. When involved in a fire, this product may generate irritating, poisonous and/or corrosive fumes and gases including carbon monoxide, carbon dioxide and potassium oxides.

Special Protective Precautions**and Equipment for Fire Fighters:**

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). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.

SECTION 6 ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective**

Equipment and Emergency Procedures: Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Stop leak if safe to do so. Increase ventilation. Avoid generating dust. Use clean, non-sparking tools and equipment.

Environmental Precautions:

Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

Methods and Materials for Containment and Clean Up:

Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for safe disposal.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.

Conditions for Safe Storage**(Including Any Incompatibles):**

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including oxidizing agents and ignition sources. Protect from direct sunlight, moisture and static discharges. Ground all equipment. Store between 15-25°C in temperature. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. Store in original packaging as approved by manufacturer.

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SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards:	No data available
Biological Monitoring:	No information available on biological limit values for this product.
Control Banding:	No data available
Engineering Controls:	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Individual Protection Measures:	
<i>Eye and Face Protection -</i>	Safety glasses with side shields (AS1336/1337).
<i>Skin Protection -</i>	Chemical-resistant gloves (AS2161).
<i>Respiratory Protection -</i>	Wear an approved respirator where dusts are generated and engineering controls are inadequate (AS1715/1716).
<i>Thermal Hazards -</i>	Long-sleeved coveralls and safety footwear (AS3765/2210).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless, transparent or white, solid. Crystal, granular or powder form
Odour:	Odourless
Odour Threshold:	No data available
pH:	7.5 - 9
Melting Point:	No data available
Boiling Point:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability:	No data available
Flammability or Explosive Limits:	Combustible Solid
Vapour Pressure:	No data available
Vapour Density:	No data available
Relative Density:	No data available
Solubility:	Soluble >50% 25°C
Partition coefficient: n-octanol/water:	No data available
Auto Ignition Temperature:	No data available
Decomposition Temperature:	230°C
Viscosity:	No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Product is stable under normal conditions of use, storage and temperature.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Avoid excessive heat, direct sunlight, generating dust, moisture, static discharges and high temperatures.
Incompatible Materials:	Incompatible with oxidizing agents and sources of ignition.
Hazardous Decomposition Products:	When involved in a fire, this product may generate irritating, poisonous and/or corrosive fumes and gases including carbon monoxide, carbon dioxide and potassium oxides.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Intravenous LD50 Dog: 176mg/Kg
Skin Corrosion/Irritation:	Excessive contact with the powder may cause mild skin irritation and redness.
Serious Eye Damage/Irritation:	Dust may cause mild eye irritation, possible reddening.
Respiratory or Skin Sensitisation:	Excessive inhalation of dust may cause mild irritation to the respiratory tract.
Germ Cell Mutagenicity:	No data available

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Carcinogenicity:	No data available
Reproductive Toxicity:	No data available
Specific Target Organ Toxicity – Single Exposure:	No data available
Specific Target Organ Toxicity – Repeated Exposure:	No data available
Aspiration Hazard:	No data available
Possible Routes of Exposure:	No data available
Early Onset Symptoms Related to Exposure:	No data available
Delayed Health Effects From Exposure:	No data available
Exposure Levels and Health Effects:	No data available
Interactive Effects:	No data available
Other Information:	No data available

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:	No ecological information available for this product.
Persistence and Degradability:	Biodegradable
Bioaccumulative Potential:	No information available on bioaccumulation for this product.
Mobility in Soil:	No information available on mobility for this product.
Other Adverse Effects:	No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Containers and Methods:	Dispose of in accordance with all local, state and federal regulations.
Physical/Chemical Properties that May affect Disposal Options:	No data available
Effects of Sewerage Disposal:	Avoid contaminating waterways, drains and sewers.
Special Precautions for Incineration/Landfill:	Contact a specialist disposal company or the local waste regulator for advice.

SECTION 14 TRANSPORT INFORMATION

UN Number:	No data available
Shipping Name:	POTASSIUM CITRATE
Transport Hazard Class:	No data available
Packing Group:	No data available
Environmental Hazards for Transport Purposes:	No data available
Precaution for User:	No data available
Additional Information:	No data available
HAZCHEM or Code:	No data available

SECTION 15 REGULATORY INFORMATION

Subject to the Following International Agreements:	No data available
APVMA Number:	No data available

SECTION 16 OTHER INFORMATION

Date of Preparation / Revision: 29 January 2013

Changes Made During Revision:

This SDS is prepared in accordance to the "Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice December 2011".

This SDS contains only safety related information. For other data see product literature.

Acronyms/Abbreviations:

<	less than
>	greater than
AICS	Australian Inventory of Chemical Substances
ADG	Australian Dangerous Goods Code
CAS	Chemical Abstracts Service (Registry Number)

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CO2	Carbon Dioxide
COD	Chemical Oxygen Demand
ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substance and New Organism
IATA	International Air Transport Association
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods Code
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for "Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
Misc	miscible
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations (number)
cm²	square centimetres
deg C (°C)	degrees Celsius
g	gram
g/cm³	grams per cubic centimetre
g/l	grams per litre
immiscible	liquids are insoluble in each other
kg	kilogram
kg/m³	kilograms per cubic metre
ltr	Litre
m³	cubic metre
mPa.s	milli Pascal per second
mbar	millibar
mg	milligram
mg/24H	milligrams per 24 hours
mg/kg	milligrams per kilogram
mg/m³	milligrams per cubic metre
miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	millimetre
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
tne	tonne
ug/24H	micrograms per 24 hours
wt	weight

This SDS summarises Value Plus Animal Health Care Products P/L best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Value Plus Animal Health Care Products P/L expressly disclaims that the SDS is a representation or guarantee of the chemical specifications for the substance. Each user should read the SDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

END OF SDS