

# Material Safety Data Sheet

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Infosafe No™ AE1EP Issue Date : January 2011 ISSUED by AMTRADE

Product Name ASCORBIC ACID (VITAMIN C)

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** ASCORBIC ACID (VITAMIN C)  
**Company Name** Amtrade International Pty Ltd (ABN 49 006 409 936)  
**Address** Level 6, 574 St Kilda Road  
Melbourne  
VIC. 3004 Australia  
**Emergency Tel.** 1800 033 111 Aust  
**Telephone/Fax Number** Tel: 61 3 9229 9229  
Fax: 61 3 9229 9290  
**Email** library@amtrade.com.au  
**Recommended Use** Nutrition (an essential vitamin in the human diet); pharmaceutical, colour fixing; food flavouring and preservative (anti-oxidant); dough anti-oxidant; citrus fruit harvesting; meat curing aid; reducing agent; feed applications.

<b>Other Names</b>	<b>Name</b>	<b>Product Code</b>
	Ascorbic Acid BP/USP 25Kg (HW)	403563
	Ascorbic Acid Coated 25Kg	391069
	Ascorbic Acid (Vitamin C) 20x1kg (SZHP)	402265
	Ascorbic Acid 25kg (ZT)	402966
	Ascorbic Acid DC Grade 25Kg	369357
	Ascorbic Acid Coated 97% EC 25kg	397601
	Ascorbic Acid (Vitamin C) 25kg (SZHP)	360651
	Ascorbic Acid BP/USP 25Kg	394173
	Ascorbic Acid Coated 20Kg	394319
	Ascorbic Acid (Vitamin C) 25kg (S/WP)	360775
	Ascorbic Acid Coated 25Kg	361607
	Ascorbic Acid (Vitamin C) 15kg (SZHP)	401838
	Ascorbic Acid BP/USP 25Kg	379026
	Ascorbic Acid (Vitamin C) 15kg (NEGP)	398365
	Ascorbic Acid (Vitamin C) 25kg (NEGP)	353744
	Ascorbic Acid (Vitamin C) E300 100 mesh 25kg (NEGP)	399612
	Ascorbic Acid BP/USP 25Kg	379697
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	Vitamin C; Threoascorbic Acid.	

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not Dangerous Goods, nor Workplace Hazardous Substance, nor Scheduled Poison.  
**Other Information** Combustible solid. If it is present as a fine powder it may form and explosive organic dust cloud.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Solid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Ascorbic Acid	50-81-7	>96% &>99%
	Water	7732-18-5	<1%
	Starch	9005-25-8	3% (if present)
	Ethyl Cellulose	9004-57-3	3% (if present)
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**Other Information** In the Coated Ascorbic Acid, Ethyl Cellulose protects against water vapour.

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## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove victim from exposure - avoid becoming a casualty. Keep at rest until fully recovered. Seek medical advice if effects persist.
<b>Ingestion</b>	Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.
<b>Skin</b>	Wash contaminated skin with plenty of water. If irritation occurs seek medical advice.
<b>Eye</b>	Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
<b>First Aid Facilities</b>	Eye wash station and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically. A weak organic acid, mildly acidic.

## 5. FIRE FIGHTING MEASURES

<b>Fire Fighting Measures</b>	Combustible solid. If it is present as a fine powder it may form an explosive organic dust cloud.  EXTINGUISHING MEDIA: Water spray, water fog, foam, Carbon Dioxide, dry chemical powder.  SPECIAL PRECAUTIONS: Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.
<b>Decomposition Temp.</b>	190-192°C

## 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	SPILLAGE: Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Contain. Cover with damp absorbent (inert material, sand or soil). Sweep up, but avoid generating dust. Collect and seal in properly labelled containers for disposal. Wash area down with excess water.
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## 7. HANDLING AND STORAGE

<b>Handling and Storage</b>	HANDLING: Avoid eye contact and repeated or prolonged skin contact. Wear protective equipment. Avoid dust cloud formation near ignition sources.  STORAGE: Store in a cool, dry, dark place. Protect from light. Keep containers closed at all times - check regularly for spills.
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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	No specific exposure standard has been established by Safe Work Australia (formerly the ASCC, formerly NOHSC).  Keep atmospheric contamination as low a level as practically possible. Nuisance Dusts 10 mg/m <sup>3</sup> TWA (inspirable dust)
<b>Engineering Controls</b>	Avoid generating and inhaling dusts. Keep containers closed when not in use. Remove all ignition sources in areas where organic dust clouds might form.
<b>Personal Protective Equipment</b>	Avoid eye contact and repeated or prolonged skin contact. Wear overalls and chemical goggles or safety glasses with side shields. Wear impervious gloves (plastic or rubber). Avoid generating and inhaling dusts. If dust exists, wear dust mask meeting the requirements of AS 1715 and AS 1716.  Always wash hands before smoking, eating, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid
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<b>Appearance</b>	Almost odourless, colourless crystals or a white to a very pale yellow crystalline solid with a pleasant sharp acidic taste. Gradually darkens on exposure to light.
<b>Decomposition Temperature</b>	190-192°C
<b>Melting Point</b>	190-192°C (decomposes)
<b>Boiling Point</b>	Not applicable
<b>Specific Gravity</b>	1.65-1.70
<b>pH Value</b>	2.1-2.6 (5% aqueous solution)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Volatile Component</b>	Nil
<b>Flash Point</b>	Not available
<b>Flammability</b>	Combustible solid. In common with many organic chemicals, may form flammable dust clouds in air.
<b>Auto-Ignition Temperature</b>	640°C
<b>Flammable Limits - Lower</b>	May form an explosive organic dust cloud with air.
<b>Explosion Properties</b>	Not available
<b>Molecular Weight</b>	MW: 176.12 Formula: C6-H8-O6
<b>Other Information</b>	SOLUBILITY: Soluble in water (333 g/L at 20°C). 1g dissolves in 30 mL Ethyl Alcohol, 50 mL Absolute Alcohol, 100 mL Glycerol, 20 mL Propylene Glycol. Insoluble in Ether; Chloroform; Benzene; Petroleum Ether; Oils; and Fats. BULK DENSITY: 600-800 kg/m <sup>3</sup> ASCORBIC ACID (30-50): 100% passes through a 30 mesh 65% passes through a 40 mesh 0% passes through a 50 mesh

## 10. STABILITY AND REACTIVITY

<b>Stability and Reactivity</b>	Stable. It is a strong reducing agent. Unstable in alkaline solutions. CONDITIONS TO AVOID: Protect from light and air. Aqueous solutions are oxidized by air. INCOMPATIBLE MATERIALS: Strong oxidizers. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide. HAZARDOUS POLYMERISATION: Will not occur.
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## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	Acute Oral Toxicity LD50 (rat) : 11900 mg/kg Acute Oral Toxicity LD50 (mouse): 3367 mg/kg
	Not mutagenic in dominant lethal tests. Induced DNA repair synthesis in cultured mammalian cells.
	Not listed as a carcinogen by the ACGIH, WHO IARC, USA NIOSH, USA NTP or USA OSHA.
<b>Inhalation</b>	Inhalation of dust may result in respiratory irritation.
<b>Ingestion</b>	Swallowing large amounts may result in nausea and vomiting.
<b>Skin</b>	Repeated or prolonged skin contact may lead to irritation.
<b>Eye</b>	May cause eye irritation for a short time only.
<b>Chronic Effects</b>	No reports available for repeated or prolonged exposure. However, not expected as Ascorbic Acid is in many foods, and may be used as a

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human vitamin supplement in the order of up to 1000 mg/day, with larger daily doses used by some persons.

## 12. ECOLOGICAL INFORMATION

**Ecological Information** This substance is not expected to be hazardous to the environment. Generally non-water polluting substance. Biodegradable.

Aquatic Toxicity LC50 (Leuciscus Idus): 33000 mg/L

## 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations** DISPOSAL: In accordance with Local, State & Federal EPA waste regulations. May be landfilled, reacted or incinerated in an approved facility.

## 14. TRANSPORT INFORMATION

**Transport Information** Not defined as Dangerous Goods by the Australian Code for the Transport of Dangerous Goods by Road & Rail; by the IATA Air Transport Dangerous Goods Regulations; or by the IMDG (International Maritime Dangerous Goods) Code.

## 15. REGULATORY INFORMATION

**Poisons Schedule** Not Scheduled

**Packaging & Labelling** Not Dangerous Goods, nor Workplace Hazardous Substance, nor Scheduled Poison.

**AICS (Australia)** All ingredients are on the Australian Inventory of Chemical Substances. Also covered by Foods Standards Australia & New Zealand (FSANZ).

## 16. OTHER INFORMATION

**Contact Person/Point** For EMERGENCIES ONLY Contact : 1800 033 111 (All Hours Australia)  
+61-3-9663-2130 (Australia - at Sea)

0800 734 607 (All Hours New Zealand)  
+64-4-473-4607 (New Zealand - at Sea)

Amtrade International Pty Ltd: 61 3 9229 9229 (Melbourne)  
61 2 9805 4200 (Sydney)

Amtrade New Zealand Limited : 64 9 579 6767 (Auckland)

NOTE: This MSDS summarises our best knowledge of the health and safety hazard information on the product, and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company, or in the event of an emergency, the Emergency Response number above.

Our responsibility for products sold is subject to our standard terms and conditions, a copy is sent to our customers and is also available on request.

### User Codes

<u>User Field Title</u>	<u>User Code</u>
Authorised by	J.Simpson
Prepared by	JS110118

**Other Information** Key Changes: General review. Minor changes only.

...End Of MSDS...

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