



Material Safety Data Sheet

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Infosafe No. AE1EP Issue Date : March 2005 ISSUED by AMTRADE

Product Name : ASCORBIC ACID (VITAMIN C)

Not classified as hazardous

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name	ASCORBIC ACID (VITAMIN C)		
Product Use	Nutrition (an essential vitamin in the human diet); colour fixing; food flavouring and preservative (anti-oxidant); dough anti-oxidant; citrus fruit harvesting; meat curing aid; reducing agent.		
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/Telex Number	Tel: 61 3 9229 9229 Fax: 61 3 9229 9290		
Other Names	Name		Product Code
	Ascorbic Acid (Vitamin C) 25kg (SZHP)		360651
	Ascorbic Acid (Vitamin C) 25kg (S/WP)		360775
	o		
	Ascorbic Acid Coated 25kg		361607
	Ascorbic Acid DC Grade (3% Starch) 20kg		369357
	o		
	Vitamin C; Threoascorbic Acid.		
	Ascorbic Acid (Vitamin C) 25kg		310040
	Ascorbic Acid (Vitamin C) 25kg (NEGP)		353744
	o		

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization	Solid		
Ingredients	Name	CAS	Proportion
	Ascorbic Acid	50-81-7	>97%
	ASCORBIC ACID COATED:		
	Ethyl Cellulose	9004-57-3	<2%
	or		.
	Starch	9005-25-8	3 %
Other Information	In the Coated Ascorbic Acid, Ethyl Cellulose protects against water vapour.		

3. HAZARDS IDENTIFICATION

	Not a Dangerous Good, 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.

4. FIRST AID MEASURES

Inhalation	Remove victim from exposure - avoid becoming a casualty. Keep at rest until fully recovered. Seek medical advice if effects persist.
Ingestion	Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.
Skin	Wash contaminated skin with plenty of water. If irritation occurs seek medical advice.
Eye	Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.



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First Aid Facilities Eye wash station and safety shower.
Advice to Doctor Treat symptomatically. A weak organic acid, mildly acidic.

5. FIRE FIGHTING MEASURES

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.

Decomposition Temp. 190-192°C

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

Store in a cool, dry, dark place. Protect from light.
Keep containers closed at all times - check regularly for spills.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits Nuisance dust 10 mg/m³ TWA

Personal Protective Equipment 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.

Eng. Controls Avoid generating and inhaling dusts. Keep containers closed when not in use.
Remove all ignition sources in areas where organic dust clouds might form.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance 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.

Decomposition Temperature 190-192°C

Melting Point 190-192°C (decomposes)

Boiling Point Not applicable

Specific Gravity (H₂O=1) 1.65-1.70

pH Value 2.1-2.6 (5% aqueous solution)

Vapour Pressure Not available

Vapour Density (Air=1) Not available



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Volatile Component Nil
Flash Point Not available
Flammability Combustible solid. In common with many organic chemicals, may form flammable dust clouds in air.
Ignition Temperature 640°C
Flammable Limits May form an explosive organic dust cloud with air.
LEL
Explosion Properties Not available
Molecular Weight 176.12
Formula: C₆-H₈-O₆
Other Information 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/m³
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

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.

11. TOXICOLOGICAL INFORMATION

Toxicology Information 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.
Inhalation Inhalation of dust may result in respiratory irritation.
Ingestion Swallowing large amounts may result in nausea and vomiting.
Skin Repeated or prolonged skin contact may lead to irritation.
Eye May cause eye irritation for a short time only.
Chronic Effects No reports available for repeated or prolonged exposure.
However, not expected as Ascorbic Acid is in many foods, and may be used as a human vitamin supplement in the order of up to 1000 mg/day, with larger daily doses used by some persons.

12. ECOLOGICAL INFORMATION

This substance is not expected to be hazardous to the environment.
Generally non-water polluting substance.
Aquatic Toxicity LC₅₀ (leuciscus idus): 33000 mg/L

13. DISPOSAL CONSIDERATIONS



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

14. TRANSPORT INFORMATION

Not defined as a Dangerous Good: 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.

U.N. Number None Allocated
Proper Shipping Name None Allocated
DG Class None Allocated
Hazchem Code None Allocated
Packing Group None Allocated

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled
Packaging & Labelling Not a Dangerous Good, Workplace Hazardous Substance nor Scheduled Poison.
AICS (Australia) All ingredients are on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Key Changes: Converted to a 16 Part MSDS.

Contact Person/Point For EMERGENCIES ONLY Contact : 1800 033 111 (All Hours Australia)
0800 734 607 (All Hours New Zealand)

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 of which is sent to our customers and is also available on request.

User Codes

Prepared by
Authorised by
NZ Schedule Poison S
...End Of MSDS...

User Code

JS0503-E
D.Latta
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