



MATERIAL SAFETY DATA SHEET

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1-613-996-6666 – CANUTEC – Transportation Emergency
1-888-243-9771 – ChExSS – Chemical Exposure

ASCORBIC ACID

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: ASCORBIC ACID

Chemical Family: L-ascorbic acid; vitamin C; L-3-Ketothreohexuronic acid lactone

WHMIS Classification: Not Controlled

Workplace Hazard: Mild irritant.

Product Use: pH adjuster

TDG Classification: Not regulated

Packaging Group: Not applicable

PIN: Not applicable

SECTION II: INFORMATION ON INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Species/Route)	LC ₅₀ (Species/Route)
L-Ascorbic Acid	60-100	50-81-7	-	-

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: May cause mild irritation to the respiratory tract, skin and eyes. Large oral doses may cause gastrointestinal disturbances

Effects of chronic exposure: No information found.

Exposure limits: None established

Irritancy of product: Mild irritant

Sensitization to product: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Name of toxicological synergistic products: Not available



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SECTION IV: FIRST AID MEASURES

Skin contact: Flush skin with water for at least 15 minutes. Get medical attention if irritation develops.

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. Seek immediate medical attention.

Ingestion: DO NOT induce vomiting. If the victim is conscious, give a little water or milk. NEVER give an unconscious person anything to ingest. Seek immediate medical attention.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: White or colorless crystals. Odorless

Odour threshold: Not available

Specific gravity : 1.65

Vapor pressure (mmHG): No information found

Vapor density (Air=1): No information found

Evaporation rate: No information found

Boiling point (°C): Not available

Freeze/Melting point (°C): 190°C (374°F). Slightly decomposes.

pH : Not available

Co-efficient of water/oil distribution: Not available

Solubility in water: Soluble in water



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Non-flammable

Means of extinguishing: Use dry chemicals, carbon dioxide, water spray or foam. Use extinguisher suitable to surrounding media.

Flash point: Not available

Upper flammable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Not available

Explosion data-sensitivity to mechanical impact: Not available

Explosion data-sensitivity to static discharge: Not available

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable

Product incompatible with: Reactive with oxidizing agents, metals, bases

Conditions of reactivity: Avoid moisture

Hazardous decomposition products: Not available

Hazardous Polymerization: Will not occur



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Wear protective gloves and clean body-covering clothing. Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Specific engineering controls: 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.

Procedures for leak/spills: Ventilate area of leak or spill. Wear appropriate personal protective equipment. **Spills:** Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Waste disposal: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused in accordance with federal, provincial and local regulations.

Handling procedures and equipment: Use appropriate personal protective equipment. Handle and use in a manner consistent with good industrial practice.

Storage requirements: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Special shipping information: Not available

SECTION IX: PREPARATION

Date updated: October, 2008

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.