



MATERIAL SAFETY DATA SHEET

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1-613-996-6666 – CANUTEC – Transportation Emergency
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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 (Rat/Oral)	LC ₅₀ (Mouse/Oral)
L-Ascorbic Acid	100	50-81-7	11900 mg/kg (Acute)	3367 mg/kg

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Acute potential health effects: May cause skin irritation. Low hazard for normal industrial handling. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Low hazard for normal industrial handling. Ingestion: Ingestion of small amounts during normal industrial handling is a low hazard. Ingestion of large amounts may cause gastrointestinal tract irritation, hypermotility, diarrhea, acidification of the urine which may cause stones in the urinary tract and may cause renal failure coordination, somnolence), eyes(lacrimation), blood (anemia).

Effects of chronic exposure: Prolonged or repeated ingestion may affect the blood/bone marrow and metabolism. . May also affect behavior.

Exposure limits: None established

Irritancy of product: Mild irritant

Sensitization to product: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available.

Teratogenicity: May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. Human: passes through the placenta, excreted in maternal milk.

Mutagenicity: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May affect genetic material.

Name of toxicological synergistic products: Not available

“dedicated to exceeding customer expectations”



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SECTION IV: FIRST AID MEASURES

Skin contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: White or colorless. Crystals solid. Powdered solids. Odorless

Odour threshold: Not applicable

Specific gravity : 1.65

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable.

Evaporation rate: No information found

Boiling point (°C): Decomposition temperature: >190°C (374°F)

Freeze/Melting point (°C): Decomposition temperature: >190°C (374°F)

pH : Not available

Co-efficient of water/oil distribution: The product is more soluble in water; $\log(\text{oil/water}) = -2.1$

Solubility in water: Soluble in water



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: May be combustible at high temperature. Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

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: 660°C (1220°F)

Hazardous combustion products: These products are carbon oxides (CO, CO₂).

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.

Conditions of instability: Heat, ignition sources, light, air, incompatible materials, dust generation

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: Safety glasses. Lab coat or coveralls. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Specific engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Handling procedures and equipment: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage requirements: Keep container tightly closed. Keep container in a cool, well-ventilated area. Air Sensitive. Sensitive to light. Store in light resistant containers.

Special shipping information: Not available

SECTION IX: PREPARATION

Date updated: November 1, 2010

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.