

## L-ASCORBIC ACID (VITAMIN C), AR GRADE

### SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

**Product Name:** L – ASCORBIC ACID AR GRADE

**Product Code:** 1715

**CAS#:** 50-81-7

**Synonym:** Vitamin C

**Chemical Name:** L – ASCORBIC ACID

**Chemical Formula:** C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>

**Formula Weight:** 176.13

### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

**Composition:**

**Name:** L – ASCORBIC ACID

**Toxicological Data on Ingredients:**

**Classification according to Regulation (EC) No 1272/2008:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### SECTION 3: HAZARDS IDENTIFICATION

**Potential Acute Health Effects:** Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

**Potential Chronic Health Effects:** Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

**Carcinogenic effects:** Not Available.

**Mutagenic effects:** Not Available.

**Teratogenicity effects:** Not Available.

**Developmental toxicity:** Not Available.

### SECTION 4: FIRST AID MEASURES

**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. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

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

**Serious Inhalation:** Not available

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

### SECTION 5: FIRE AND EXPLOSION DATA

**Flammability of the Product:** May be combustible at high temperature

**Auto-Ignition Temperature:** 660°C (1220°F)

**Flash Points:** Not Available.



**Flammable Limits:** Not Available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>)

**Fire Hazards in Presence of Various Substances:** Not Applicable.

**Explosion Hazards in Presence of Various Substances:**

**Risks of explosion of the product in presence of mechanical impact:** Not Available.

**Risks of explosion of the product in presence of static discharge:** Not available

**Fire Fighting Media and Instructions:**

**Small fire:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Large fire:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Remarks on Fire Hazards:** As with most powdered organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

**Special Remarks on Explosion Hazards:** Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## SECTION 7: HANDLING AND STORAGE

**Precautions:** Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

**Storage:** Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**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.

**Personal Protection:** Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.

**Personal Protection in Case of a Large Spill:** Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not Available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	White crystalline powder
Odor	:	Not available
Taste	:	Not available
Color	:	Not available
pH (10% soln/water)	:	2.2 – 2.5
Boiling Point	:	Not available



Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not applicable
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Iconicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

#### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is chemically stable under standard ambient conditions.

**Instability Temperature:** Not available.

**Conditions of Instability:** Heat, ignition sources, light, air, incompatible materials, dust generation.

**Incompatibility with various substances:** Strong oxidizing material.

**Corrosively:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Air and light sensitive. Aqueous solutions are rapidly oxidized by air, accelerated by alkalies, iron, copper.

**Special Remarks on Corrosively:** Not available

**Polymerization:** Will not occur.

#### SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of Entry:** Eye Contact and ingestion and Inhalation.

**Toxicity to Animals:**

**LD<sub>50</sub>:** 3367 mg/kg [Mouse].

**LC<sub>50</sub>:** Not available.

**Chronic Effects on Humans:** Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/ or yeast.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

#### SECTION 12: ECOLOGICAL INFORMATION

**Eco toxicity:** Not Available.

**BOD and COD:** Not Available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not Available.

#### SECTION 13: DISPOSAL CONSIDERATIONS

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

#### SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID:

IMDG:

IATA:

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es):

ADR/RID:

IMDG:

IATA:

Packaging group:

ADR/RID:

IMDG:

IATA:

Environmental hazards:

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

#### SECTION 15: OTHER REGULATORY INFORMATION

**Federal and State Regulations:** TSCA 8(b) inventory: Ascorbic acid

**Other Regulations:** EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):** This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes.

**HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 1

**Flammability:** 1

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:** Gloves, Lab coat, Safety glasses, and Dust respirator - be sure to use an approved/certified respirator or equivalent.

#### SECTION 16: OTHER INFORMATION

**References:** Full text of H and R-Statements.

Not Applicable

**Other Special Considerations:** Not available

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