L-ASCORBIC ACID

SECTION 1: PRODUCT IDENTIFICATION

Product Name: L-ASCORBIC ACID
Product Code: 5113
CAS#: Not available
Synonym: Not Available
Chemical Name: Not available
Chemical Formula: Not available
Formula Weight: Not available

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Name: L-ASCORBIC ACID
Toxicological Data on Ingredients:
Classification according to Regulation (EC) No 1272/2008
Not a hazardous substance

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant)
Potential Chronic Health Effects: Not available
Carcinogenic effects: Not available
Mutagenic effects: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast
Teratogenic effects: Not available
Developmental toxicity: Not available Repeated or prolonged exposure is not known to aggravate medical condition

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. Cold water may be used. 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. Cold water may be used.
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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion: Not availableeailable

SECTION 5: FIRE FIGHTING MEASURES

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: Carbon oxides

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks
Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.
Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
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. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area

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	:	Solid powder
Odor	:	Not applicable
Taste	:	Acidic
Color	:	White
Molecular Weight	:	Not available
PH	:	2.4 – 2.8
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available

Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Freely soluble in water; sparingly soluble in ethanol; insoluble in ether

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is stable
Instability Temperature: Not available
Conditions of Instability: Not available
Incompatibility with various substances: Heat, ignition sources, light, air, incompatible materials, dust generation
Corrosivity: Not available
Special Remarks on Reactivity: Air and light sensitive. Aqueous solutions are rapidly oxidized by air, accelerated by alkalies, iron, copper
Special Remarks on Corrosivity: Non-corrosive in presence of glass
Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Ingestion.
Toxicity to Animals:
LD_{50}: Oral – Mouse – 3367 mg/kg
LC_{50}: Not Available
Chronic Effects on Humans: MUTAGENIC EFFECTS: 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: May affect genetic material (mutagenic). May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. Human: passes through the placenta, excreted in maternal milk.
Special Remarks on other Toxic Effects on Humans: 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). Chronic Potential Health Effects: I

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: 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 product itself and its products of degradation are not 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

DOT Classification: Not a DOT controlled material (United States).
Identification: Not applicable
Special Provisions for Transport: Not applicable

SECTION 15: 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
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: Not Available
Protective Equipment: Gloves, Lab coat, Safety glasses, 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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