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Mallinckrodt, Inc., Science Products Division, P.O. Box M, Paris, KY 40361.

ASCORBIC ACID

PRODUCT IDENTIFICATION:
Synonyms: L-ascorbic acid; vitamin c
Formula CAS No.: 50-81-7
Molecular Weight: 176.13
Chemical Formula: C\(_6\)H\(_8\)O\(_6\)
Hazardous Ingredients: Not applicable.

PRECAUTIONARY MEASURES

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

EMERGENCY/FIRST AID

SEE SECTION 5.
DOT Hazard Class: Not Regulated

SECTION 1 Physical Data
Appearance: White crystals.
Odor: Odorless.
Solubility: 33g/100g water.
Boiling Point: Not applicable.
Melting Point: Slightly decomposes @ 192°C (378°F).
Specific Gravity: 1.65
Vapor Density (Air =1): No information found.
Vapor Pressure (mm Hg): No information found.
Evaporation Rate: No information found.

SECTION 2 Fire and Explosion Information
Fire:
As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion:
Not considered to be an explosion hazard.

Fire Extinguishing Media:
Use any means suitable for extinguishing surrounding fire.

Special Information:
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 3 Reactivity Data
Stability:
Stable under ordinary conditions of use and storage. Aqueous solutions are rapidly oxidized by air.

Hazardous Decomposition Products:
Emits acid smoke and irritating fumes when heated to decomposition.

Hazardous Polymerization:
Will not occur.

Incompatibilities:
Strong oxidizers and alkali hydroxides, alkalis, iron, copper, sodium salicylate, sodium nitrile, theobromine and methenamine.

SECTION 4 Leak/Spill Disposal Information
Ventilate area of leak or spill. Clean-up personnel may require respiratory protection from dust.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Disposal: Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility. Ensure compliance with local, state and federal regulations.

Effective Date: 10-09-85

ASCORBIC ACID
SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:
Not expected to be a health hazard.

Ingestion:
Large oral doses may cause gastrointestinal disturbances.

Skin Contact:
May cause mild irritation.

Eye Contact:
May cause mild irritation.

Chronic Exposure:
No information found.

Aggravation of Pre-existing Conditions:
No information found.

B. FIRST AID

Inhalation:
Not expected to require first aid measures.

Ingestion:
Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Exposure:
Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Exposure:
Wash thoroughly with running water. Get medical advice if irritation develops.

C. TOXICITY DATA (RTECS, 1982)

No LD50/LC50 information found relating to normal routes of occupational exposure. Mutation references cited. Reproductive effects cited.

SECTION 6 Occupational Control Measures

Airborne Exposure Limits:
None established.

Ventilation System:
In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators: (NIOSH Approved)
For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection:
Wear protective gloves and clean body-covering clothing.

Eye Protection:
Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Isolate from incompatible substances.

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