VITAMIN C (L-ascorbic-acid)
Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: vitamin c
INCI Name: ascorbic acid
Synonyms: L-ascorbic acid
CAS Number: 50-81-7
EINECS Number: 200-066-2
Origin: synthetic

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: 192°C (378°F)
Boiling Point: not determined
Vapor Pressure: not determined
Vapor Density: not determined
Evaporation Rate: not determined
Density: 1.65 g/cm³ at 20°C
Solubility in water: soluble
pH Value: 3 (0.5% solution)
Appearance & Odor: fine white powder, no odor

3. STABILITY & REACTIVITY

Chemical Stability: stable if stored light-protected
Incompatibility: oxidizing agents
Hazardous Decomposition Products: biodegradable; burning can produce carbon monoxide and carbon dioxide
Hazardous Polymerisation: will not occur

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid sunlight, freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.
Protective Clothing: Gloves recommended to prevent skin contact. Safety glasses, goggles, or face shield recommended for eye protection.
Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

7. HAZARDS IDENTIFICATION

General: Non hazardous and non combustible.
Inhalation: Avoid breathing dust. May cause mild irritation to the respiratory tract.

Eye Contact: May cause mild irritation. Irrigate eye with water. Seek medical attention if symptoms persist.
Skin Contact: May cause mild irritation.
Ingestion: Large oral doses may cause gastrointestinal disturbances, especially if chronically ingested (see below)

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.
Skin: Wash exposed areas of the body with soap and water.
Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

9. FIRE FIGHTING MEASURES

Flash Point: Not applicable
Flammability, Danger of Explosion: not flammable or explosive
Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

10. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 >11.9 g/kg (oral, rats)
Ingestion: LD50 >5.0 g/kg (oral, rats)
Sensitization: No sensitizing effects known
Chronic Toxicity: Chronic ingestion of large doses of L-ascorbic acid may cause nausea, diarrhea, urine acidification, crystallization of oxalates and uric acid in the bladder and kidneys, decreased reaction times and psychomotor coordination problems.

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

12. TRANSPORT INFORMATION

General: not regarded as hazardous material
DOT Regulations, Hazard Class: none
ADR/RIC Code, Hazard Class: none
IMDG Code, Hazard Class: none
Sea Transport IMDG Code, Hazard Class: none
Air Transport IATA, Hazard Class: none

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company’s knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user’s responsibility to satisfy himself as to the suitableness & completeness of such information for his own particular use.

ALL DATA HEREIN ARE ALL AS PER OUR SUPPLIER.