



Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)

SDS No. 916

Review Date: June 27, 2018

1 Identification of substance and company

Product name: Ascorbic acid, L-
Product code: 90203
Relevant use and restrictions on use: Research and product development
Manufacturer/Supplier: Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: 210-691-2000
Fax: 210-691-2600
Web site: www.noahtech.com
Emergency information: CHEMTREC
800-424-9300

2 Hazards identification

Emergency Overview:
Pictogram(s): None
Signal word(s): Warning
Hazard statements: May form combustible dust concentrations in air
Precautionary statements: None
Hazards not otherwise classified: Combustible dust
GHS Classification: Combustible dust
HMS ratings (scale 0-4):
Health hazard: 0
Flammability: 0
Physical hazard: 0

3 Composition/Information on ingredients

Chemical name: Ascorbic Acid, L-
CAS number: 50-81-7
EC number: 200-066-2
Formula: C₆H₈O₆
Synonyms: Vitamin C, Ascorbic acid, Vitaminin
Ingredients of known acute toxicity: L-Ascorbic Acid

4 First aid measures

After inhalation: Move victim to fresh air. If not breathing, give artificial respiration.
After skin contact: Wash off with soap and plenty of water
After eye contact: Flush with plenty of water for at least 15 minutes.
After ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.
Information for doctor: No data available
Symptoms/effects; acute and delayed: No data available
Immediate medical attention and special treatment needed: No data available

5 Fire-fighting measures

Suitable and unsuitable extinguishing agents: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing media most suitable to surrounding fire conditions.
Special hazards caused by the material, its products of combustion or resulting gases: Carbon monoxide and dioxide
Special fire fighting procedures: Wear self-contained breathing apparatus. Always wear full fire fighting equipment / clothing in fire situations.
Unusual fire and explosion hazard: No data available

6 Accidental release measures

Person-related safety precautions: Avoid dust formation. Avoid breathing vapors, mist or gas.
Measures for environmental protection: Do not let product enter drains.
Measures for cleaning/collecting: Sweep up and shovel. Keep in suitable, close containers for disposal.
Additional information: See Section 7 for information on safe handling
See Section 8 for information on personal protective equipment
See Section 13 for information on disposal
See Section 15 for regulatory information

7 Handling and storage

Information for safe handling:	Avoid dust formation. Ensure adequate ventilation.
Information about protection against explosions and fires:	No data available
Storage requirements to be met by storerooms and containers:	Keep container tightly closed in a dry, well ventilated place.
Incompatibility (avoid contact with):	Strong oxidizers. Water / Moisture
Further information about storage conditions:	Heat. Contact with incompatibles.

8 Exposure controls/personal protection

Ventilation requirements:	Local exhaust
Components with exposure limits that require monitoring:	No data available
General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be adhered to Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin
Personal protective equipment:	
Respiratory protection: (Use only NIOSH or CEN approved Equipment)	Filter-dust, fume, mist
Hand protection:	Handle with gloves: Neoprene / Natural rubber / Impervious Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with product.
Eye protection:	Safety glasses
Skin protection:	Protective work clothing sufficient to prevent contact.
Additional protective equipment:	Emergency eyewash and safety shower.
Precautionary labeling:	Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist, gas Keep container closed Keep away from heat, sparks and open flames Store in a cool / dry place

9 Physical and chemical properties

Physical state:	Crystalline powder
Color:	White to tan
Odor:	Odorless
Odor threshold:	No data available
Molecular Weight (Calculated):	176.12
pH	1.0 - 2.5 @ 176 g / L @ 25 C
Melting point/freezing point/range:	191 C
Boiling point/range:	No data available
Sublimation temperature/start:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	May form combustible dust concentrations in air
Flash point:	No data available
Autoignition temperature:	No data available
Danger of explosion:	No data available
Flammable limits:	
Lower:	No data available
Upper:	No data available
Evaporation Rate:	No data available
Vapor pressure (mm Hg):	No data available
Vapor density:	No data available
Specific gravity:	1.65 g / cm ³ @ 20 C
Bulk density:	No data available
Solubility in/Miscibility with water:	176 g / L @ 20 C
Partition coefficient n-octanol/water:	No data available
Viscosity:	No data available
Other information:	No additional data

10 Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	No data available
Conditions to be avoided:	Light. Heat. Contact with incompatibles See section 7 for information on proper handling and storage
Materials to be avoided:	Strong oxidizers / Water / Moisture
Dangerous reactions:	No data available
Hazardous decomposition products: (thermal and other)	Carbon monoxide and dioxide

11 Toxicological information

LD/LC50 values that are relevant for classification:	oral-rat LD ₅₀ : 11,900 mg / kg
Irritation or corrosion of skin:	No data available
Irritation or corrosion of eyes:	No data available
Primary irritant or corrosive effect: on the skin:	Mild irritation
on the eye:	Mild irritation
Sensitization:	No data available
Potential health effects:	
Inhalation:	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion:	No data available
Skin:	No data available
Eyes:	No data available
Signs and symptoms of exposure:	Chronic ingestion of large doses may cause gastrointestinal disturbances including nausea and diarrhea, urinary effects involving urine acidification, oxalate and uric crystallization in the bladder and kidney, and decreased reaction times and psychomotor coordination.
Carcinogenicity:	IARC: No component of this product is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product is identified as a carcinogen or potential carcinogen by OSHA. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known
Additional information:	

12 Ecotoxicological information

Toxicity:	
Toxicity to fish:	No data available
Toxicity to daphnia and other aquatic invertebrates:	No data available
Toxicity to algae:	No data available
Persistence and degradability:	
Biodegradability:	No data available
Bioaccumulative potential:	
Bioaccumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13 Disposal considerations

Recommendation:	Consult state, local or national regulation for proper disposal Allow professional disposal company to handle waste Must be specially treated under adherence to official regulations
Unclean packagings recommendation:	Disposal must be made according to official regulations

14 Transport information

Land transport DOT

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Ascorbic acid, L

Air transport ICAO-TI and IATA-DGR:

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Ascorbic acid, L

UPS Ground / FedEx Ground

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Ascorbic acid, L

UPS Air

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Ascorbic acid, L

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311 / 312 hazards:	No SARA Hazards
SARA Section 313 components:	This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313

California Proposition 65 components:

This product does not contain any chemicals known to the State of California to cause birth defects or any other reproductive harm.

TSCA:

Product is listed on the TSCA Inventory

16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.