

MATERIAL SAFETY DATA SHEET

EM SCIENCE

|1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer.....:

Preparation Date.: 1/30/97

EM SCIENCE

A Division of EM Industries

Information Phone Number.: 856-423-

6300

P.O. Box 70

Hours: Mon. to Fri. 8:30-5

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Chemtrec Emergency Number: 800-424-

9300

Gibbstown, N.J. 08027

Hours: 24 hrs a day

Catalog Number(s):

AX1775 AX1776 127 AX1770 AX1771 AX1772 5014635B 50146364

Product Name:

L(+) Ascorbic Acid

Synonyms:

Vitamin C

Chemical Family:

Vitamin

Formula:

C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>

Molecular Weight.: 176.13

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Appr %
L(+) Ascorbic Acid	50-81-7	100%

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Handling care generally in keeping with safe laboratory practices is recommended.

#### Appearance:

White granular, powder or crystals

#### POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

#### Symptoms of Exposure:

Contact with skin or eyes may cause irritation.

Dust inhalation may be irritating to respiratory tract.

Repeated ingestion of large doses may cause gastrointestinal, bladder and kidney disturbances.

#### Medical Cond. Aggravated by Exposure:

Data not available.

#### Routes of Entry:

Inhalation, ingestion or skin contact.

#### Carcinogenicity:

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

#### 4. FIRST AID MEASURES

Emergency First Aid:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Skin: Immediately flush thoroughly with large amounts of water.

Eyes: Immediately flush thoroughly with water for at least 15 minutes.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

Ingestion: Get immediate medical attention; if conscious, give water freely.

#### 5. FIRE FIGHTING MEASURES

Flash Point (F) . . . . : N/A

Flammable Limits LEL (%): N/A

Flammable Limits UEL (%): N/A

Extinguishing Media . . :

Water spray, foam, CO2

Fire Fighting Procedures:

Wear self-contained breathing apparatus.

Fire & Explosion Hazards:

Thermal decomposition produces acrid fumes.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Spill Response:

Evacuate the area of all unnecessary personnel.

Wear suitable protective equipment listed under Exposure /  
Personal Protection.

Eliminate any ignition sources until the area is determined to be  
free from explosion or fire hazards.

Contain the release and eliminate its source, if this can be done  
without risk.

Take up and containerize for proper disposal as described under  
Disposal.

Comply with Federal, State, and local regulations on reporting  
releases. Refer to Regulatory Information for reportable  
quantity and other regulatory data.

#### 7. HANDLING AND STORAGE

##### Handling & Storage:

Keep container closed.

Store at controlled room temperature.

Do not breathe dust.

Do not get in eyes.

Avoid skin contact.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

Ventilation, Respiratory Protection, Protective Clothing, Eye  
Protection:

Material should be handled or transferred in an approved fume

hood or with adequate ventilation.

Protective gloves (Natural rubber, Neoprene, PVC or equivalent)

should be worn to prevent skin contact

Safety glasses with side shields should be worn at all times.

#### Work/Hygenic Practices:

Wash thoroughly after handling.

Do not take internally.

Eye wash and safety equipment should be readily available.

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#### EXPOSURE GUIDELINES

##### OSHA - PEL:

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
L(+) Ascorbic Acid							

##### ACGIH - TLV

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
L(+) Ascorbic Acid							

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (C 760 mmHg) : N/A

Melting Point (C). . . . . : 192C Decomposes

Specific Gravity (H2O = 1) : 1.65

Vapor Pressure (mm Hg). . . : N/A

Percent Volatile by vol (%): N/A

Vapor Density (Air = 1). . : N/A

Evaporation Rate (BuAc = 1): N/A

Solubility in Water (%). . : 25%

Appearance . . . . . :

White granular, powder or crystals

#### 10. STABILITY AND REACTIVITY

Stability: Yes

Hazardous Polymerization:

Does not occur

Hazardous Decomposition:

COx

Conditions to Avoid:

Keep container tightly closed to avoid oxidation by air.

Materials To Avoid:

( ) Water

( ) Acids

( ) Bases

( ) Corrosives

(X) Oxidizers

( ) Other:

#### 11. TOXICOLOGICAL INFORMATION

##### Toxicity Data

orl-rat LD50: 11,900 mg/kg

##### Toxicological Findings:

Test on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.

Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

#### 12. DISPOSAL CONSIDERATIONS

##### EPA Waste Numbers:

##### Treatment:

Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

#### 13. TRANSPORT INFORMATION

##### DOT Proper Shipping Name:

non-regulated

##### DOT ID Number . . . . . :

none

#### 14. REGULATORY INFORMATION

TSCA Statement:

The CAS number of this product is listed on the TSCA Inventory.

	SARA	SARA	CERCLA
Component	EHS	EHS TPQ	RQ
	(302)	(lbs)	(lbs)

L(+) Ascorbic Acid

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	OSHA	SARA	DeMinimis
Component	Floor List	313	for SARA 313
			(%)

L(+) Ascorbic Acid

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

15. OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health :0

Flammability :1

Reactivity :0



Special Hazards :

Revision History:      2/1/84      5/13/86      2/23/87      10/27/87      3/1/91      12/3/92

| = Revised Section

N/A = Not Available

N/E = None Established

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