

Material Safety Data Sheet

Page : 1

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BASF CORPORATION
3000 CONTINENTAL DRIVE

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(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

Ascorbic Acid USP/FCC Crystal

Product ID: NCN 001701

Common Chemical Name:

l-Ascorbic Acid

Synonyms:

Vitamin C Powder: 30158141

Molecular Formula:

C(6)H(8)O(6)

Chemical Family: Vitamin

Molecular Wt.: 176.1

SECTION 2 - INGREDIENTS

Chemical Name:	CAS	Amount	
L-Ascorbic Acid	50-81-7	99.0 - 100.0	%
PEL/TLV NOT ESTABLISHED			

SECTION 3 - PHYSICAL PROPERTIES

Color:	White			
Form/Appearance:	Crystalline			
Odor:	Odorless			
	Typical	Low/High	U.O.M.	
Specific Gravity:	NOT AVAILABLE			
Bulk Density:		0.4 - 4	G/CC	
pH:	3		(5% AQ SOLN)	
	Typical	Low/High	Deg.	@ Pressure
Boiling Pt:	NOT AVAILABLE			
Freezing Pt:	- 190		C	1 ATMOSPHERES
Decomp. Tmp:	> 190		C	1 ATMOSPHERES
Solubility in Water Description:	Soluble			
	Typical	Low/High	U.O.M.	@ Temperature
Solubility:	333		G/L	20 C
	ETHANOL			

Ascorbic Acid USP/FCC Crystal
NCN 001701

Page : 2

SECTION 4 - FIRE AND EXPLOSION DATA

	Typical	Low/High	Deg.	Method
Flash Point:	NOT AVAILABLE			
Autoignition:		370 - 375		C NONE SPECIFIED
Extinguishing Media:	Use water, dry extinguishing media, carbon dioxide (CO ₂) or foam.			
Fire Fighting Procedures:	Firefighters should be equipped with self-contained breathing apparatus and turn out gear.			
Unusual Hazards:	Ensure adequate ventilation to minimize dusting.			

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Overexposure Effects:

Contact with the powder or its dusts may cause irritation of the eyes, skin and respiratory tract. Ingestion of large amounts may cause gastric disturbances.

Sensitization may occur in some individuals.

Chronic Overexposure Effects:

Overexposure may result in sensitization, leading to allergic reactions.

Chronic ingestion of large doses of vitamin C may cause gastrointestinal disturbances, including nausea and diarrhea, urinary effects involving urine acidification, oxalate and uric acid crystallization in the bladder and kidney and decreased reaction times and psychomotor coordination.

First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

First Aid Procedures - Eyes:

Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention.

First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to the effects of overexposure section for effects (if any) observed in animals.

Ascorbic Acid USP/FCC Crystal
NCN 001701

Page : 3

SECTION 5 - HEALTH EFFECTS (cont)

First Aid Procedures - Special Precautions:

None

SECTION 6 - REACTIVITY DATA

Stability Data:

Stable

Incompatibility:

None known.

Conditions/Hazards to Avoid:

Heat, light, moisture and air.

Hazardous Decomposition/Polymerization:

Hazardous decomposition products: None known.

Polymerization: Does not occur.

Corrosive Properties:

Corrosive to metal.

Oxidizer Properties:

Not an oxidizer

SECTION 7 - PERSONAL PROTECTION

Clothing:

Gloves, coveralls, apron, and boots as necessary to prevent contact.

Eyes:

Chemical Goggles

Respiration:

If dusts are generated, wear an approved dust respirator.

Ventilation:

Use local exhaust to control dusts.

Explosion Proofing:

None required.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:

Spills should be contained and placed in suitable containers for disposal. This material is not regulated under RCRA or CERCLA ("Superfund").

Waste Disposal:

Incinerate in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

SECTION 9 - STORAGE AND HANDLING

General:

Prevent electrostatic charge.

Store at moderate temperatures in tight, light-resistant containers.

Ascorbic Acid USP/FCC Crystal
NCN 001701

Page : 4

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

State Regulatory Information: (By Component) NJ/PA/MA RTK

CAS: IMPURITIES NO

NAME: IMPURITIES

CAS: 50-81-7 NO

NAME: L-Ascorbic Acid

CAS: 144-62-7 NO

NAME: ETHANEDIOIC ACID

CAS: 7732-18-5 NO

NAME: WATER

Product Grades: USP: Y NF: FCC: Y

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

N/A

DOT Technical Name:

N/A

DOT Primary Hazard Class:

N/A

DOT Secondary Hazard Class:

N/A

DOT Label Required:

N/A

DOT Placard Required:

N/A

DOT Poison Constituent:

N/A

BASF Commodity Codes: 453 453 UN/NA Code: E/R Guide:

Bill of Lading Description:

NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION

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Ascorbic Acid USP/FCC Crystal

NCN 001701

Page : 5

SECTION 11 - TRANSPORTATION INFORMATION (cont)

END OF DATA SHEET