

ASCORBIC ACID**0379**

October 1997

CAS No: 50-81-7
RTECS No: CI7650000Vitamin C
L-Ascorbic acid
L-Xyloascorbic acid
3-Oxo-L-gulofuranolactone (enol form)
 $C_6H_8O_6$
Molecular mass: 176.12

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water spray, powder.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Cough. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Eyes	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion			Rinse mouth.

SPILLAGE DISPOSAL

Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Wash away remainder with plenty of water. Personal protection: P1 filter respirator for inert particles.

PACKAGING & LABELLING**EMERGENCY RESPONSE****SAFE STORAGE**

Separated from strong oxidants, strong bases.

IPCSInternational
Programme on
Chemical SafetyPrepared in the context of cooperation between the International
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IMPORTANT DATA**Physical State; Appearance**

ODOURLESS, WHITE TO SLIGHTLY YELLOW CRYSTALS OR POWDER

Chemical dangers

The substance is a strong reducing agent and reacts with oxidants. The solution in water is a medium strong acid.

Occupational exposure limits

TLV not established.

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk

No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20/C.

Effects of short-term exposure

The substance irritates the eyes, the skin and the respiratory tract.

PHYSICAL PROPERTIES

Melting point (decomposes): 190-192/C
Density: 1.65 g/cm³

Solubility in water, g/100 ml: 33
Octanol/water partition coefficient as log Pow: -2.15

ENVIRONMENTAL DATA**NOTES****ADDITIONAL INFORMATION****LEGAL NOTICE**

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