

TETRASODIUM ETHYLENEDIAMINETETRAACETATE

1688

October 2006

CAS No: 64-02-8
RTECS No: AH5075000

Ethylenediaminetetraacetic acid tetrasodium salt
Acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt
N,N'-Ethylenediaminediacetic acid tetrasodium salt
EDTA Tetrasodium
 $C_{10}H_{12}N_2O_8Na_4 / ((NaOOCCH_2)_2NCH_2)_2$
Molecular mass: 380.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray, foam, powder, carbon dioxide.
EXPLOSION	Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	

EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Cough. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness.	Protective gloves.	Rinse skin with plenty of water or shower.
Eyes	Redness. Pain.	Safety goggles	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Burning sensation in the throat and chest. Abdominal pain. Diarrhoea.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Personal protection: P2 filter respirator for harmful particles. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Wash away remainder with plenty of water.	GHS classification Signal: Warning Excl mark Harmful if swallowed Causes mild skin irritation Causes serious eye irritation

EMERGENCY RESPONSE	SAFE STORAGE
	Separated from strong oxidants, strong bases.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS CRYSTALLINE POWDER.

Physical dangers

Dust explosion possible if in powder or granular form, mixed with air.

Chemical dangers

The substance decomposes on heating producing toxic fumes including nitrogen oxides. Reacts with strong bases, strong oxidants.

Occupational exposure limits

TLV not established.

MAK not established.

Routes of exposure

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

Inhalation risk

A harmful concentration of airborne particles can be reached quickly when dispersed

Effects of short-term exposure

The substance is irritating to the eyes.

PHYSICAL PROPERTIES

Decomposes at >200 /C

Relative density (water = 1): 0.7

Solubility in water, g/100 ml at 20/C: 100-110

Auto-ignition temperature: >200/C

Octanol/water partition coefficient as log Pow: 5.01 (calculated)

ENVIRONMENTAL DATA

NOTES

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information