

ZINC STEARATE

0987
April 2000

CAS No: 557-05-1
RTECS No: ZH5200000

Octadecanoic acid, zinc salt
Zinc distearate
Stearic acid, zinc salt
 $C_{36}H_{70}O_4Zn / Zn(C_{18}H_{35}O_2)_2$
Molecular mass: 632.3

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.	Powder, water spray, foam, 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.	Avoid inhalation of fine dust and mist.	Fresh air, rest. Refer for medical attention.
Skin			Rinse skin with plenty of water or shower.
Eyes		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection: P1 filter respirator for inert particles).	

EMERGENCY RESPONSE	STORAGE
NFPA Code: H 0; F 1; R 0	

IMPORTANT DATA

Physical State; Appearance

WHITE, FINE, SOFT POWDER.

Physical dangers

Dust explosion possible if in powder or granular form, mixed with air. If dry, it can be charged electrostatically by swirling, pneumatic transport, pouring, etc.

Chemical dangers

The substance decomposes on burning producing irritating and toxic fumes including zinc oxide.

Occupational exposure limits

TLV: 10 mg/m³ (ACGIH 1999).

Routes of exposure

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

Inhalation risk

Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly.

PHYSICAL PROPERTIES

Melting point: 130°C
Density: 1.1 g/cm³
Solubility in water: none
Flash point: 277°C o.c.

Auto-ignition temperature: 420°C
Explosive limits, vol% in air: 20 g/m³ - ?
Octanol/water partition coefficient as log Pow: 1.2

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