

GUANIDINE NITRATE**0561**

October 2005

CAS No: 506-93-4
 RTECS No: MF4350000
 UN No: 1467

Guanidine mononitrate
 Guanidinium nitrate
 $\text{CH}_6\text{N}_4\text{O}_3 / \text{CH}_5\text{N}_3.\text{HNO}_3$
 Molecular mass: 122.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Explosive. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking. NO contact with flammable substances.	Water in large amounts.
EXPLOSION	Risk of fire and explosion.	Do NOT expose to friction or shock.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Sore throat. Cough.	Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness. Pain.	Protective gloves.	First rinse with plenty of water, then remove contaminated clothes and rinse again.
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		Do not eat, drink, or smoke during work.	Do NOT induce vomiting. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL

Evacuate danger area and consult an expert in case of large spill. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Do NOT absorb in saw-dust or other combustible absorbents. Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting.

PACKAGING & LABELLING

UN Hazard Class: 5.1
 UN Pack Group: III

EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-51GO2-I+II+III

SAFE STORAGE

Fireproof. Store in an area without drain or sewer access. Separated from combustible and reducing substances.

IPCS

International
 Programme on
 Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
 IPCS 2005

SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance
WHITE SOLID IN VARIOUS FORMS

Chemical dangers
May explosively decompose on shock, friction, or concussion. May explode on heating. On combustion, forms toxic and corrosive fumes including nitric acid and nitrogen oxides. The substance is a strong oxidant and reacts with combustible and reducing materials.

Occupational exposure limits
TLV not established.
MAK not established.

Routes of exposure
The substance can be absorbed into the body by ingestion.

Inhalation risk
A nuisance-causing concentration of airborne particles can be reached quickly when dispersed, especially if powdered.

Effects of short-term exposure
The substance is severely irritating to the eyes and the skin.

PHYSICAL PROPERTIES

Decomposes below boiling point
Melting point: 217/C
Density: 1.436 g/cm³

Solubility in water, g/100 ml at 20/C: 16
Octanol/water partition coefficient as log Pow: -8.35

ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms.

NOTES

Rinse contaminated clothes (fire hazard) with plenty of water.

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