

GUANIDINE HYDROCHLORIDE**0894**

October 2000

CAS No: 50-01-1

RTECS No: MF4300000

EC No: 607-148-00-0

Aminoformamidine hydrochloride
Aminomethanamidine hydrochloride
Carbamidine hydrochloride
Iminourea hydrochloride
CH₆CIN₃ / CH₅N₃.ClH
Molecular mass: 95.5

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Foam, powder.
EXPLOSION			

EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness.	Protective gloves. Protective clothing.	Rinse skin with plenty of water or shower.
Eyes	Redness. Pain.	Safety goggles, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Diarrhoea.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!).

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Wash away remainder with plenty of water. (Extra personal protection: P2 filter respirator for harmful particles).	Xn Symbol R: 22-36/38 S: (2-)22

EMERGENCY RESPONSE	STORAGE
	Well closed. Dry.

IMPORTANT DATA

Physical State; Appearance

HYGROSCOPIC, CRYSTALLINE POWDER

Chemical dangers

On combustion, forms toxic and corrosive fumes including hydrogen chloride and nitrogen oxides.
The solution in water is a weak acid.

Occupational exposure limits

TLV not established. MAK not established.

Routes of exposure

The substance can be absorbed into the body by ingestion.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

Effects of short-term exposure

The substance irritates the eyes and the skin.

PHYSICAL PROPERTIES

Melting point: 178-185°C
Density: 1.3 g/cm³

Solubility in water, g/100 ml at 20°C: 215
Octanol/water partition coefficient as log Pow: -1.7

ENVIRONMENTAL DATA

NOTES

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

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