CAS No: 10022-31-8 RTECS No: CQ9625000 UN No: 1446 EC No: 056-002-00-7

#### Nitric acid, barium salt Barium dinitrate BaN<sub>2</sub>O<sub>6</sub> / Ba(NO<sub>3</sub>)<sub>2</sub> Molecular mass: 261.4

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible but enhances combustion of other substances.	NO contact with flammable substances.	In case of fire in the surroundings: water in large amounts. NO carbon dioxide.
EXPLOSION	Risk of fire and explosion on contact with combustible substances and reducing agents.		
EXPOSURE		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
Inhalation	Cough. Shortness of breath. Sore throat. see Ingestion.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness. Pain.	Protective gloves.	First rinse with plenty of water, ther 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.
ngestion	Salivation. Abdominal cramps. Abdominal pain. Diarrhoea. Nausea. Vomiting. Shortness of breath. Weakness.	Do not eat, drink, or smoke during work.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). See Notes. Refer for medical attention.
SPILLAGE DIS	POSAL	PACKAGING & LABELLING	
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Then wash away with plenty of water. Do NOT let this chemical enter the environment. Personal protection: P2 filter respirator for harmful particles.		Xn Symbol R: 20/22 S: (2-)28 UN Hazard Class: 5.1 UN Subsidiary Risks: 6.1 UN Pack Group: II	Do not transport with food and feedstuffs. Marine pollutant.
		STORAGE	
EMERGENCY	RESPONSE	STURAGE	

IPCS International Programme on Chemical Safety





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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA			
Physical State; Appearance COLOURLESS TO WHITE CRYSTALS OR CRYSTALLINE POWDER.	<b>Routes of exposure</b> The substance can be absorbed into the body by inhalation and by ingestion.		
<b>Chemical dangers</b> The substance decomposes on heating producing nitrogen oxides. The substance is a strong oxidant and reacts with combustible and reducing materials. Reacts with powdered metals causing fire and explosion hazard.	<b>Inhalation risk</b> Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.		
<b>Occupational exposure limits</b> TLV: (Barium, soluble) 0.5 mg/m <sup>3</sup> as TWA; A4; (ACGIH 2004). MAK: (inhalable fraction) 0.5 mg/m <sup>3</sup> ; Peak limitation category: II(2); (DFG 2003).	Effects of short-term exposure The substance is irritating to the eyes, the skin and the respiratory tract. Exposure could cause hypokalaemia, resulting in cardiac disorders and muscular disorders. Exposure may result in death.		

# PHYSICAL PROPERTIES

Decomposes below boiling point Melting point: 590/C Density: 3.24 g/cm<sup>3</sup> Solubility in water, g/100 ml at 20/C: 8.7 moderate

### **ENVIRONMENTAL DATA**

The substance is harmful to aquatic organisms.

### NOTES

Temperature of decomposition unknown in literature.

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

Will turn shock-sensitive if contaminated with magnesium-aluminium alloys, sulfur powder or light metal powder.

Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available.

## ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible