

BARIUM CHLORATE**0613**

October 2000

CAS No: 13477-00-4
 RTECS No: FN9770000
 UN No: 1445
 EC No: 017-003-00-8

Chloric acid, barium salt
 $BaCl_2O_6$ / $Ba(ClO_3)_2$
 Molecular mass: 304.2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible but enhances combustion of other substances. Many reactions may cause fire or explosion.	NO contact with flammable substances. NO contact with organic substances, metal powders, ammonium salts, and reducing agents.	In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION	Risk of fire and explosion on contact with: see Chemical Dangers.	Do NOT expose to friction or shock. Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	In case of fire: keep drums, etc., cool by spraying with water. Combat fire from a sheltered position.
EXPOSURE		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
Inhalation	Cough. Sore throat. (See Ingestion).	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
Skin	Redness.	Protective gloves.	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
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	Abdominal pain. Blue lips or fingernails. Blue skin. Confusion. Convulsions. Diarrhoea. Dizziness. Headache. Nausea. Unconsciousness. Vomiting. Weakness.	Do not eat, drink, or smoke during work.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rest. Refer for medical attention.

SPILLAGE DISPOSAL

Consult an expert if large spill! Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Wash away remainder with plenty of water. Do NOT absorb in saw-dust or other combustible absorbents. Do NOT let this chemical enter the environment. Personal protection: P2 filter respirator for harmful particles.

PACKAGING & LABELLING

O Symbol
 Xn Symbol
 N Symbol
 R: 9-20/22-51/53
 S: (2-)13-27-61
 UN Hazard Class: 5.1
 UN Subsidiary Risks: 6.1
 UN Pack Group: II

Do not transport with food and feedstuffs.

EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-51S1445
 NFPA Code: H2; F0; R1; ox

SAFE STORAGE

Separated from combustible and reducing substances, ammonium-containing substances, metal powders, food and feedstuffs.

IPCS

International
 Programme on
 Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS CRYSTALLINE POWDER

Chemical dangers

Shock-sensitive compounds are formed with organic compounds, reducing agents, ammonia-containing agents, and metal powders. The substance decomposes violently on heating producing oxygen and toxic fumes, causing fire and explosion hazard. The substance is a strong oxidant and reacts with combustible and reducing materials.

Occupational exposure limits

TLV: (as Ba) 0.5 mg/m³ as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004).

MAK: (as Ba) (Inhalable fraction) 0.5 mg/m³; Peak limitation category: II(2); (DFG 2004). 0.5 mg/m³ EC OELs

Routes of exposure

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

Inhalation risk

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

Effects of short-term exposure

The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the blood and nervous system, resulting in formation of methaemoglobin. Exposure could cause hypokalemia, resulting in cardiac disorders and muscular disorders. The effects may be delayed. Medical observation is indicated. Exposure may result in death.

PHYSICAL PROPERTIES

Decomposes below melting point: 250°C
Density: 3.2 g/cm³

Solubility in water, g/100 ml: 27.4 (good)

ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms.

NOTES

Depending on the degree of exposure, periodic medical examination is suggested.

The symptoms of paralysis do not become manifest until some hours have passed.

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

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

10294-38-9 is a CAS registry number for Barium chlorate, monohydrate.

Will turn shock-sensitive if contaminated with: see Chemical Dangers.

Card has been partly updated in October 2004 and 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.

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