

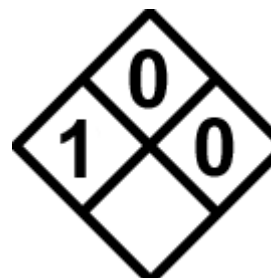


HASA SODIUM BROMIDE

Material Safety Data Sheet

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HASA Sodium Bromide
Material Safety Data Sheet MSDS No.212

CHEMICAL DATA	
Synonyms:	Bromide salt of sodium; natrium bromide
Chemical Family:	Alkali metal halide
Formula:	NaBr
Molecular Weight:	102.9
CAS Registry Number:	7647-15-6

INGREDIENTS (Typical analysis – not a specification)
Sodium Bromide – 98%

PHYSICAL DATA			
Boiling Point:	1390° C	Melting point:	775° C
Vapor Pressure:	1 mm Hg at 805° C	Vapor Density:	Not Applicable.
Specific Gravity:	3.21	Evaporation Rate:	None at ambient temperature.
Solubility:	In water: 95 g/100 g at 25° C		
	In other solvents: 7 g/100 g in 95% ethanol		
Decomposition:	Decomposes from ca. 800° C, with the release of toxic, irritant bromine fumes.		
Appearance & Odor:	White, odorless crystalline solid; hygroscopic, but not deliquescent.		

FIRE AND EXPLOSION HAZARD DATA	
Flash Point:	None
Flammable (explosive) limits:	Will not support combustion.
Autoignition Point:	None
Extinguishing Media:	Use extinguishing media appropriate to surrounding conditions.
Special Fire Fighting Procedures:	Cool containers with water spray. In closed stores, provide fire fighters with self-contained breathing apparatus (in pressure demand or other positive pressure mode).
Unusual Fire and Explosion Hazards:	From ca. 800° C will decompose, releasing toxic bromine fumes.

HEALTH HAZARD DATA				
Toxicity:	LD₅₀ (Oral, Rat):	4200 mg/kg	LD₅₀ (Dermal, Rabbit):	2000 mg/kg
Threshold limit value:	Not established.			

Effects of Overexposure:		
Acute:	Eye Contact:	Mild, non-persistent, conjunctival irritation.
	Skin Contact:	Non-irritant to intact skin. Slight irritant, on prolonged contact, to abraded skin.
	Skin Absorption:	None via intact skin
	Ingestion:	May produce depression, sedation and confusion. After prolonged exposure, may produce non-persistent acne-like skin rash.
Chronic:	Ingestion:	Repeated ingestion may cause bromism, emaciation, depression, mental deterioration, with acne-like skin rash.
Mutagenicity:	Not Mutagenic.	

Emergency and First Aid procedures:	
Eye Contact:	Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 15 minutes. Get medical attention if irritation persists.
Skin Contact:	Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. Get medical attention if irritation occurs.
Inhalation:	In case of dust inhalation or breathing fumes releases by NaBr at high temperatures, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention.
Ingestion:	If swallowed, give two glasses of water and induce vomiting. Get medical attention. DO NOT INDUCE VOMITING or give liquids to an unconscious person.

REACTIVITY DATA	
Stability:	Stable under normal conditions.
Conditions to avoid:	Heating above 800° C
Incompatibility:	Will react violently with bromine trifluoride.
Hazardous decomposition products:	Will not occur.

SPILL OR LEAK PROCEDURES	
Steps to be taken in case material is released or spilled:	Use dust respirator, rubber gloves and protective goggles with side-shields. Prevent dusting; shovel into intact packaging for possible re-use, or dilute with water and drain to sewer with ample water.
Waste Disposal Method:	Put into a large vessel containing water and drain into sewer with ample water.

SPECIAL PROTECTION INFORMATION		
Ventilation Requirements:	Ventilation must be sufficient to maintain dust below 10 mg/m ³ 8 hours TWA (the ACGIH recommended Threshold Limit Value for total dust).	
Protective Equipment:	Eyes:	Chemical safety goggles
	Gloves:	Protective gloves
	Respirator:	Dust respirator
	Other protective equipment:	Body-covering clothes and boots.

SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage:	Keep containers tightly closed. Store in a dry, cool location, away from BrF acids, and alkaloidal and heavy metal salts.
Other precautions:	Safety shower and eye bath should be provided. Do not eat, drink or smoke until after-work ablution.

REGULATION INFORMATION

Transportation:	IMO, UK, USA; Not regulated.
Status:	Reported in EPA TSCA Inventory, 1985 Reported in EINECS Not listed in NTP

State Regulations:

PROPOSITION 65 STATEMENT(California Only):

Do not swallow water in pools, hot tubs, or spas. Sodium Bromide(or "The active ingredient in this product") may react with certain other substances in pool, hot tub, and spa waters from bromates. Bromates are known by the State of California to cause cancer when administered by the oral (drinking or ingesting) route. Read and follow label directions and use care when handling or using this product.

This warning is provided pursuant to Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986, chapter 6.6 of the California Health and Safety Code, which requires the Governor of California to publish a list of chemicals "known to the state to cause cancer or reproductive toxicity." This list is compiled in accordance with the procedures established under the Proposition, and can be obtained on the internet from California's Office of Environmental Health Hazard Assessment at <http://www.oehha.ca.gov>. There are over 700 chemical substances on this list.

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