



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Potassium bromide, standard infrared grade,
NSN: 681000N037212
Manufacturer's CAGE: 60928
Part No. Indicator: A
Part Number/Trade Name: POTASSIUM BROMIDE, STANDARD INFRARED GRADE,
Ingredients/Identity Information
PROPRIETARY: No
INGREDIENT: Potassium bromide; (potassium bromide, standard infrared
Grade)
INGREDIENT SEQUENCE NUMBER: 01
NIOSH (RTECS) Number: TS7650000
CAS Number: 7758-02-3
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

SECTION 1 – PHYSICAL/CHEMICAL CHARACTERISTICS

PHYSICAL STATE AND APPEARANCE: Solid. (Crystalline solid. Crystals solid.)
ODOR: Odorless.
TASTE: Saline. Bitter. Pungent. (Strong.)
MOLECULAR WEIGHT: 119 g/mole
COLOR: White.
pH (1% soln/water): 7 [Neutral.]
BOILING POINT: 1435°C (2615°F)
MELTING POINT: 730°C (1346°F)
CRITICAL TEMPERATURE: Not available.
SPECIFIC GRAVITY: 2.75 (Water = 1)
VAPOR PRESSURE: Not applicable.
VAPOR DENSITY: Not available.
VOLATILITY: Not available.
ODOR THRESHOLD: Not available.
WATER/OIL DIST. COEFF.: Not available.
IONICITY (in Water): Not available.
DISPERSION PROPERTIES: See solubility in water.
SOLUBILITY: Easily soluble in cold water, hot water. Slightly soluble in diethyl ether.
Insoluble in acetate.
SOLUBILITY IN WATER: 1 g/1.5 ml

SOLUBILITY IN BOILING WATER: 1 g/1 ml Solubility in alcohol: 1 g/250 ml Solubility in boiling alcohol: 1g 21 ml

SECTION 2 – FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY OF THE PRODUCT: Non-flammable.
AUTO-IGNITION TEMPERATURE: Not applicable.
FLASH POINTS: Not applicable.
FLAMMABLE LIMITS: Not applicable.
PRODUCTS OF COMBUSTION: Not available.
FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: Not applicable.
EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: Non-explosive in presence of open flames and sparks, of shocks, of heat.
FIRE FIGHTING MEDIA AND INSTRUCTIONS: Not applicable.
SPECIAL REMARKS ON FIRE HAZARDS: Not available.
SPECIAL REMARKS ON EXPLOSION HAZARDS: Not available.

SECTION 3 – REACTIVITY DATA

STABILITY: The product is stable.
INSTABILITY TEMPERATURE: Not available.
CONDITIONS OF INSTABILITY: Incompatible materials, moisture
INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Reactive with oxidizing agents, acids.p. 4
CORROSIVITY: Non-corrosive in presence of glass.
SPECIAL REMARKS ON REACTIVITY: Hygroscopic; keep container tightly closed. Incompatible with heavy metal salts. Reacts violently with bromine trifluoride
SPECIAL REMARKS ON CORROSIVITY: Not available.
POLYMERIZATION: Will not occur.

SECTION 4 – HEALTH HAZARD DATA

POTENTIAL ACUTE HEALTH EFFECTS: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

POTENTIAL CHRONIC HEALTH EFFECTS:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to the nervous system. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 5 – FIRST AID PROCEDURES

EYE CONTACT: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

SKIN CONTACT: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

SERIOUS SKIN CONTACT: Not available.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SERIOUS INHALATION: Not available.

INGESTION: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

SERIOUS INGESTION: Not available.

SECTION 6 – SPECIAL HANDLING INFORMATION

PRECAUTIONS: Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

STORAGE: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 7 – TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Inhalation. Ingestion.

TOXICITY TO ANIMALS: Acute oral toxicity (LD50): 3070 mg/kg [Rat].

CHRONIC EFFECTS ON HUMANS: Causes damage to the following organs: the nervous system. May cause damage to the following organs: central nervous system (CNS).

OTHER TOXIC EFFECTS ON HUMANS: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

SPECIAL REMARKS ON TOXICITY TO ANIMALS: Not available.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: May affect genetic material (mutagenic)

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS: Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: Causes gastrointestinal tract irritation (gastritis) with vomiting, diarrhea. It may also affect the urinary system/kidneys (anuria, acute nephrosis, uremia, kidney hemolysis, fatty degeneration of the kidney, kidney damage), liver (fatty liver degeneration). It may affect the brain/central nervous system (central nervous depression, hallucinations, psychosis, drowsiness, irritability, confusion, mania, ataxia, vertigo, mental deterioration, somnolence), eyes (enlarge pupils with subnormal reaction to light, miosis, diplopia).