MATERIAL SAFETY DATA SHEET

24HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Nickel bromide hydrate
CAS#: 13462-88-9
FORMULA: NiBr2.xH20
SYNONYM: Nickel dibromide hydrate, Nickelous bromide hydrate

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	13462-88-9	100	0.1 mg/m3 (as Ni)	1mg/m3 (as Ni)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Ingestion of nickel salts may cause intestinal disorders, convulsions, and asphyxia. Bromide exposure may cause central nervous system effects and skin rashes.
PRIMARY ROUTES OF EXPOSURE: Contact with skin and eyes. Inhalation of dust.
EYE CONTACT: May be a mild irritant to the eyes.
SKIN CONTACT: May cause slight to mild irritation of the skin. Prolonged contact with nickel salts may lead to dermatitis.
INHALATION: Dust may cause irritation to the respiratory tract; symptoms may include coughing and shortness of breath.
INGESTION: Ingestion of nickel salts may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.
CHRONIC HEALTH EFFECTS: Prolonged exposure to nickel compounds may cause cancer. Prolonged exposure to bromides may cause skin rashes (bromaderma) and central nervous system depression, including, memory loss, irritability, and headache.
ACUTE HEALTH EFFECTS: Nickel salts may be irritating to skin, eyes, gastrointestinal, and respiratory tract. Bromides may cause skin rash, blurred vision, drowsiness, irritability, dizziness, mania, and coma.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.
SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable
AUTO IGNITION TEMPERATURE: none
EXPLOSION LIMITS: none
EXTINGUISHING MEDIUM: None. Material is non-flammable.
SPECIAL FIREFIGHTING PROCEDURES: No special fire fighting procedures required.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: none
UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAD PROCEDURES: To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite or other suitable inert material and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container .

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.
SKIN PROTECTION: Chemical-resistant.
VENTILATION: If possible, handle the material in an efficient fume hood.
RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: yellow to green xtl.
MOLECULAR WEIGHT: 218.51
MELTING POINT (DEG. C.): none
BOILING POINT: no data
VAPOR PRESSURE: not applicable
SPECIFIC GRAVITY: no data
SOLUBILITY IN WATER: 199g/100cc (O°c)

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable
HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: none
INCOMPATIBILITY: active metals and chlorine
DECOMPOSITION PRODUCTS: water, metal bromide

SECTION 11 Toxicological Information

RTECS DATA: No information available in the RTECS files
MUTAGENIC EFFECTS: no data
TETRATOGENIC EFFECTS: no data
CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Toxic solid, inorganic, n.o.s., Class 6.1, UN 3288, PG III

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (TITLE 313): Title compound: see category code N495 for reporting.

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.
DATE PREPARED: 07/05