



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### NICKEL BROMIDE 18% SOLUTION

#### **SECTION I - GENERAL INFORMATION**

Revision Date: August 2007

Emergency Number: Chemtrec 800-424-9300 or 703-527-3887

Information Number: 800-238-0001

Synonyms: None Known

CAS#: 13462-88-9

OSHA Hazardous Substance: Yes (as Nickel Bromide 99%) TVL and PEL 1mg (Ni) m<sup>3</sup>

DOT Hazard Class: Not Listed

#### **SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

As Nickel Bromide 99%

#### **SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H<sub>2</sub>O)=1): 1.182

Percent Volatile by Volume(%): Not Applicable

Melting Point: 963°C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Complete

Appearance and Odor: Green Liquid

pH: Unknown

#### **SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media:

Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire.

Unusual Fire Explosion Hazard: None Known.

Auto Ignition Temperature: Not Applicable

#### **SECTION V - REACTIVITY DATA**

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Strong Acids and Oxidizers

Hazardous Polymerization:

Will not occur under normal conditions.

Hazardous Decomposition Products: Hydrogen Bromide gas.

#### **SECTION VI - HEALTH HAZARD DATA**

Route(s) of Entry: Inhalation: Yes      Skin: Yes      Ingestion: Yes      Eye: Yes

Health Hazards:

Acute: As Nickel Bromide 99%- severe irritant and corrosive.

Chronic: Prolonged contact may cause pneumitis, depression, emaciation and mental deterioration.

Carcinogenicity:

Listed by ACGIH -NoIARC -Yes    NTP   Yes-    OSHA - Yes (as Nickel Bromide 99%)

Signs - Symptoms of Exposure:

Eyes and Skin: Can cause irritation.

Ingestion: Nickel is poison by ingestion, may cause intestinal disorders.

Inhalation: May cause a red, dry sore nose and throat.

Medical Conditions Aggravated by Exposure:

None known.

Emergency First Aid Procedures

EYES: Immediately wash eyes with copious amounts of water for at least 15 minutes. Obtain Medical attention if irritation persists.

SKIN: wash area with copious amounts of water for at least 16 minutes. If irritation develops, contact medical attention.

INGESTION: Immediately wash out mouth. Obtain medical attention

INHALATION: immediately remove to fresh air. give oxygen or artificial respiration as needed.

## **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND use**

Steps to be Taken in Case Material is Released or Spilled:

Wear appropriate respiratory and protective equipment. Isolate spill area and provide ventilation. Vacuum up spill and place in a closed container for proper disposal.

Waste Disposal Method:

Dispose of in accordance with all federal, state and local regulations.

Precautions to be Taken in Handling and Storage:

Avoid contact with skin, eyes and clothing. Avoid breathing dust or mist. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials.

## **SECTION VIII - CONTROL MEASURES**

Respiratory Protection Type:

Use NIOSH/MSHA approved respirator.

Ventilation Requirements:

Ventilate as necessary to eliminate dust from work area.

Protective Gloves, Clothing or Equipment Requirements:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

Work, Hygienic Practices:

As required to protect skin and eyes from dust. Safety showers and /or eye wash should be available. Do not leave food or smoke in the work area. Wash thoroughly and remove or clean any contaminated clothing.

**SECTION IX - FEDERAL REGULATORY INFORMATION**

Reportable Quantities (RQ) Under EPA CERCLA: Not Required

SARA Title III Information - Not Listed

Reason for issue: Changed Date

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