MATERIAL SAFETY DATA SHEET

SECTION I NAME
Product
Sodium Iodide

SECTION III PHYSICAL DATA
Melting Point (°F)
653°C (1207°F)

Boiling Point (°F)
1304°C (2379°F)

Vapor Pressure (mm Hg)
1mm at 767°C

Appearance & Odor
White crystals or powder, slowly becomes brown in air due to liberation of iodine; no odor.

Specific Gravity (H₂O = 1)
3.667 at 22°C

Evaporation Rate
Non-volatile (NA).

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Solutions resulting from flushing spills or leaks can safely be disposed of through sewage system except where local regulations may prohibit such disposal.

Waste Disposal Facility
Any media suitable for extinguishing supporting fire.

SPECIAL FIREFIGHTING PROCEDURES
If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Thermal decomposition or burning may produce Hydrogen iodide gas and/or Iodine gas. Avoid contact with strong acid and strong oxidizing agents.

INVENTORY OF INGREDIENTS
Sodium Iodide

Vacuum Pressure (mm Hg)
1mm at 767°C

UNIT SIZE
up to 2.5 Kg.

C.A.S. No.
7681-82-5

D.O.T.
NON-REGULATED.

Approved by U.S. Department of Labor “essentially similar” to form OSHA-20

SECTION II INGREDIENTS OF MIXTURES
Principal Component(s)
Sodium Iodide

% by Volume
100%

TLV Units
None established.

WARNING! HARMFUL IF SWALLOWED.

INGESTION:

Flush mouth out with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

INGESTION:

Stomach contents should not be induced. Get immediate medical attention.

INGESTION:

Refer to physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES:

Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

EYES:

Flush with water for 15 minutes. If irritation occurs, get medical attention.

EYES:

Flush with water for 15 minutes. If irritation occurs, get medical attention.

See physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

EYES:

Flush with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

EYES:

Flush with water for 15 minutes. If irritation occurs, get medical attention.

SECTION IV EXPLOSION AND EXPLOSION HAZARD DATA
Flame Point (Method Used)
Non-flammable.

Flammable Limits in Air
% by Volume
N/A

Lower
Upper

Extinguisher Media
Use any media suitable for extinguishing supporting fire.

Respiration Protection
None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation
Local Exhaust: Recommended. Special: No.
Mechanical (General): Recommended. Other: No.

Protective Gloves
Rubber.

Eye Protection
Chemical safety glasses.

Goggles, lab coat, eye wash station, ventilation hood, proper gloves.

Other Protective Equipment

SECTION V HEALTH HAZARD DATA
Threshold Limited Value
Not established. (ACGIH 1993-94). Oral LD50 (Rat) 4340 mg/kg.

Effects of Overexposure

INGESTION:

May cause gastrointestinal irritation, vomiting, diarrhea, headache, fever, various skin rashes and eruptions. EYES:

May cause severe irritation. SKIN:

May cause irritation and/or dermatitis. Inhalation:

Breathing Sodium iodide dust can irritate nose and throat. Exercise appropriate procedures to minimize potential hazards. Target organs: None known.

Emergency and First Aid Procedures

INGESTION:

Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES:

Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN:

Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Shower and wash thoroughly. If skin irritation occurs, get medical attention.

EYES:

Flush with water for 15 minutes. If irritation occurs, get medical attention.

EYES:

Flush with water for 15 minutes. If irritation occurs, get medical attention.

See physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

EYES:

Flush with water for 15 minutes. If irritation occurs, get medical attention.

EYES:

Flush with water for 15 minutes. If irritation occurs, get medical attention.

SECTION VI REACTIVITY DATA
Stability
Unstable

Conditions to Avoid
Excessive temperature and heat. Protect from light.

Incompatibility
Avoid contact with strong acids and strong oxidants. Metallic salts, chloral hydrate, perchloric acid, bromine trifluoride.

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be taken in case material is released or spilled
Spills can be flushed away with water, in which sodium iodide is readily soluble.

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Solutions resulting from flushing spills or leaks can safely be disposed of through sewage system except where local regulations may prohibit such disposal.

SECTION VIII SPECIAL PROTECTION INFORMATION
Respiration Protection (Specify Type)
None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation
Local Exhaust: Recommended. Special: No.
Mechanical (General): Recommended. Other: No.

Protective Gloves

Eye Protection
Chemical safety glasses.

Goggles, lab coat, eye wash station, ventilation hood, proper gloves.

Other Protective Equipment

SECTION IX SPECIAL PRECAUTIONS
Precautions to be taken in Handling & Storing
Keep container tightly closed when not in use.

Other Precautions
Avoid contact with skin, eyes and clothing. Avoid inhalation. Remove and wash contaminated clothing.

Revision No. 8
Date 01/01/07
Approved James A. Bertsch
Chemical Safety Coordinator
JAB

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