

DATE: 10/30/98 ACCT: 888235001  
 INDEX: D83024340 CAT NO: P410500 PO NBR: UNI-92073

## \*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

Potassium Iodide  
 19435

## \*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

MSDS Name: Potassium Iodide

Catalog Numbers:

AC418250030, AC418260030, S71981, S71981-2, S77567, BP367 500, BP367-500,  
 BP367500, NC9501981, P410 10, P410 100, P410 3, P410 500, P410-10, P410-100,  
 P410-100LB, P410-3, P410-500, P41010, P410100, P410100LB, P4103, P410500,  
 P410500001, P412 10, P412 3, P412 500, P412-10, P412-100LB, P412-3,  
 P412-500, P41210, P412100LB, P4123, P412500, S719812

Synonyms:

Knollide, potide

Company Identification: Fisher Scientific

1 Reagent Lane  
 Fairlawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

## \*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

| CAS#      | Chemical Name    | %   | EINECS#   |
|-----------|------------------|-----|-----------|
| 7681-11-0 | Potassium iodide | 100 | 231-659-4 |

## \*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

## EMERGENCY OVERVIEW

Appearance: colorless or white.

Caution! May cause respiratory tract irritation. May cause eye and skin irritation. May cause digestive tract irritation with nausea, vomiting, and diarrhea. May cause fetal effects.

Target Organs: None.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

May cause skin irritation. Chronic ingestion of iodides during pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn.

Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

May cause respiratory tract irritation.

Chronic:

Chronic exposure can lead to iodism characterized by salivation, nasal discharge, sneezing, conjunctivitis, fever, laryngitis, bronchitis, stomatitis, and skin rashes. Chronic ingestion of iodides during pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn.

## \*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

If victim is conscious and alert, give 2-4 cupsful of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Treat symptomatically and supportively.

Antidote:

None reported.

## \*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

General Information:

Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Extinguishing Media:

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For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.  
 Autoignition Temperature: Not applicable.  
 Flash Point: Not applicable.  
 (estimated) Health: 1; Flammability: 0; Reactivity: 0  
 Explosion Limits, Lower: Not available.  
 Upper: Not available.

## \*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

## \*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry, well-ventilated area away from incompatible substances.

## \*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

## Exposure Limits

| Chemical Name    | ACGIH       | NIOSH       | OSHA - Final PELs |
|------------------|-------------|-------------|-------------------|
| Potassium iodide | none listed | none listed | none listed       |

OSHA Vacated PELs:

Potassium iodide:

No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## \*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State:

Solid

Appearance:

colorless or white

Odor:

odorless

pH:

7 to 9

Vapor Pressure:

Not available.

Vapor Density:

Not available.

Evaporation Rate:

Not available.

Viscosity:

Not available.

Boiling Point:

2426 deg F

Freezing/Melting Point:

1256 deg F

Decomposition Temperature:

Not available.

Solubility:

Soluble in water

Specific Gravity/Density:

3.13

Molecular Formula:

KI

Molecular Weight:

166.0028

## \*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, light, moisture.

Incompatibilities with Other Materials:

incompatible with salts of alkaloids, chloral hydrate, calomel(mercurous chloride), potassium chlorate, metallic salts, tartaric and other acids, bromine trifluoride, and fluorine

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perchlorate.  
Hazardous Decomposition Products:  
Oxides of potassium, iodine.  
Hazardous Polymerization: Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTECS#:  
CAS# 7681-11-0: TT2975000  
LD50/LC50:  
Not available.  
Carcinogenicity:  
Potassium iodide -  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
Epidemiology:  
No data available.  
Teratogenicity:  
Iodine salts can cause deformity, illness, and death of a fetus.  
Reproductive Effects:  
No data available.  
Neurotoxicity:  
No data available.  
Mutagenicity:  
No data available.  
Other Studies:  
No data available.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Ecotoxicity:  
This chemical is expected to cause little oxygen depletion in aquatic systems. This chemical has a moderate potential to affect aquatic organisms.  
Environmental Fate:  
If diluted with a large amount of water, this chemical released directly or indirectly into the environment is not expected to have a significant impact.  
Physical/Chemical:  
No information found.  
Other:  
No information found.

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.  
RCRA D-Series Maximum Concentration of Contaminants:  
None listed.  
RCRA D-Series Chronic Toxicity Reference Levels: None listed.  
RCRA F-Series: None listed.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

US DOT  
No information available.  
IMO  
No information available.  
IATA  
No information available.  
RID/ADR  
No information available.  
Canadian TDG  
No information available.

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

US FEDERAL  
TSCA  
CAS# 7681-11-0 is listed on the TSCA inventory.  
Health & Safety Reporting List  
None of the chemicals are on the Health & Safety Reporting List.  
Chemical Test Rules  
None of the chemicals in this product are under a Chemical Test Rule.  
Section 12b  
None of the chemicals are listed under TSCA Section 12b.  
TSCA Significant New Use Rule  
None of the chemicals in this material have a SNUR under TSCA.  
SARA  
Section 302 (RQ)  
None of the chemicals in this material have an RQ.  
Section 302 (TPQ)  
None of the chemicals in this product have a TPQ.  
SARA Codes  
CAS # 7681-11-0: acute, chronic.  
Section 313  
No chemicals are reportable under Section 313.  
Clean Air Act:

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This material does not contain any hazardous air pollutants.  
This material does not contain any Class 1 Ozone depleters.  
This material does not contain any Class 2 Ozone depleters.

Clean Water Act:  
None of the chemicals in this product are listed as Hazardous Substances under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:  
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE  
Potassium iodide is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:  
None of the chemicals in this product are listed.

European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: Not available.

Risk Phrases:  
Safety Phrases:  
WGK (Water Danger/Protection)  
CAS# 7681-11-0: 1

Canada  
CAS# 7681-11-0 is listed on Canada's DSL/NDSL List.  
This product has a WHMIS classification of D2A.  
CAS# 7681-11-0 is not listed on Canada's Ingredient Disclosure List.  
Exposure Limits

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 1/04/1995 Revision #14 Date: 12/12/1997

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.