

Smith Sci

111-113

Material Safety Data Sheet**Potassium iodide**

MSDS# 19435

Section 1 - Chemical Product and Company Identification

MSDS Name:

Potassium iodide

Catalog Numbers:

19379-0000, 19379-0100, 19379-0500, 19673-0000, 19673-0025, 19673-5000,
20647-0000, 20647-1000, 20647-5000, 37365-0000, 37365-1000, 37365-5000,
41826-0000, 41826-1000, BPE367-500, P/5840/48, P/5840/50, P/5840/53,
P/5840/60, P/5840/65, P/5840/68, P/5840/70, P/5880/48, P/5880/50, P/5880/53,
P/5880/60, P/5880/63, P/5880/70

Synonyms:

None.

Company Identification: Fisher Scientific UK

Bishop Meadow Road, Loughborough
Leics. LE11 5RG

For information in Europe, call: (01509) 231166

Emergency Number, Europe: 01509 231166

Griffin & George

Section 2 - Composition, Information on Ingredients

CAS#: 7681-11-0
Chemical Name: Potassium iodide
%: 99.995
EINECS#: 231-659-4

Hazard Symbols:

None listed

Risk Phrases:

None listed

Section 3 - Hazards Identification**EMERGENCY OVERVIEW**

Not available

Potential Health Effects

Eye:

Causes mild eye irritation.

Skin:

May cause skin irritation. May be harmful if absorbed through the skin. May cause allergic sensitization in certain individuals.

Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation:

May cause respiratory tract irritation. May be harmful if inhaled. May cause respiratory sensitization.

Chronic:

May cause reproductive and fetal effects. May interfere with iodine uptake of the thyroid gland and enlarge it. Some references (e.g. Dreisbach's Handbook) say that iodine and iodine compounds are potent sensitizers and that repeated contact may cause sensitivity dermatitis, laryngeal edema, serum sickness with lymph node enlargement, and joint pain and swelling.

Section 4 - First Aid Measures

Eyes:

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

Skin:

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

Ingestion:

Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move 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:

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:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

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:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 7681-11-0:

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 minimize contact with skin.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Crystalline powder
Color:	white
Odor:	odorless
pH:	7-9 (aq soln)
Vapor Pressure:	Not available
Viscosity:	Not available
Boiling Point:	1330 deg C @ 760 mmHg (2,426.00°F)
Freezing/Melting Point:	680 deg C (1,256.00°F)
Autoignition Temperature:	Not applicable
Flash Point:	Not applicable.
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Soluble
Specific Gravity/Density:	3.13
Molecular Formula:	KI
Molecular Weight:	166

Section 10 - Stability and Reactivity

Chemical Stability:

Air sensitive. Moisture sensitive. Light sensitive.

Conditions to Avoid:

Incompatible materials, light, dust generation, moisture, prolonged exposure to air.

Incompatibilities with Other Materials

Metals, oxidizing agents, strong reducing agents, alkali metals, bromine trifluoride, chlorine trifluoride, ozone, perchloryl

fluoride, chloral hydrate, charcoal, metal salts, calomel.

Hazardous Decomposition Products
Hydrogen iodide, oxides of potassium.
Hazardous Polymerization
Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 7681-11-0: TT2975000
LD50/LC50:
RTECS: Not available.
Other:
Carcinogenicity:
Potassium iodide -
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:
See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other:
Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
IMO
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
RID/ADR
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases:
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
CAS# 7681-11-0: 1
Canada
CAS# 7681-11-0 is listed on Canada's DSL List
US Federal
TSCA
CAS# 7681-11-0 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:
2/25/1999
Revision #8 Date
2/15/2008

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 event shall the company 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 the company has been advised of the possibility of such damages.

