

Material Safety Data Sheet

acc. to OSHA and ANSI

Printing date 03/26/2007

Reviewed on 01/25/2007

Product name: Potassium iodide

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Land transport ADR/RID (cross-border)

ADR/RID class: None

Maritime transport IMDG:

IMDG Class: None

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

Transport/Additional information:

Not dangerous according to the above specifications.

15 Regulations

Product related hazard informations:

Hazard symbols:

Xn Harmful

Risk phrases:

63 Possible risk of harm to the unborn child

36/38 Irritating to eyes and skin.

42/43 May cause sensitization by inhalation and skin contact.

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately.

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

Information about limitation of use:

For use only by technically qualified individuals.

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing MSDS: Health, Safety and Environmental Department.

Contact: Darrell R. Sanders

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1 Identification of substance:

Product details:

Product name: Potassium Iodide

Stock number: 11601

Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company
Johnson Matthey Catalog Company, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Emergency Phone: (978) 521-6300

CHEMTREC: (800) 424-9300

Web Site: www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency Information:

During normal hours the Health, Safety and Environmental Department.
After normal hours call Chemtrec at (800) 424-9300.

2 Composition/Data on components:

Chemical characterization:

Description: (CAS#)

Potassium Iodide (CAS# 7681-11-0): 100%

Identification number(s):

EINECS Number: 213-659-4

3 Hazards identification

Hazard description:



Xn Harmful

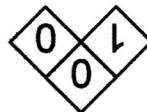
Information pertaining to particular dangers for man and environment
R 63 Possible risk of harm to the unborn child
R 36/38 Irritating to eyes and skin.
R 42/43 May cause sensitization by inhalation and skin contact.

Classification system
NPPA Ratings (scale 0-4)

Health = 1

Fire = 0

Reactivity = 0



HMTS ratings (scale 0-4)
(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 0

Reactivity = 0

HEALTH	1
FIRE	0
REACTIVITY	0

4 First aid measures

After inhalation

Supply fresh air and to be sure call for a doctor.

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Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek immediate medical advice.

Information for doctor

The following symptoms may occur: Gastric or intestinal disorders.

5 Fire fighting measures

Suitable extinguishing agents

Product is not flammable. Use fire fighting measures that suit the surrounding fire.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Hydrogen iodide (HI)

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:

Dispose contaminated material as waste according to item 13.

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling

Information for safe handling:

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires:

The product is not flammable

Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Do not store together with acids.

Store away from reducing agents.

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Store away from water/moisture.

Further information about storage conditions:

Protect from exposure to light.

Protect from humidity and water.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

Additional information: No data

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties:

General Information

Form:	Granules
Color:	White
	Pale yellow
Odor:	Odorless

Change in condition

Melting point/Melting range:	681°C (1258°F)
Boiling point/Boiling range:	1330°C (2426°F)
Sublimation temperature / start:	Not determined

Flash point: Not applicable

Flammability (solid, gaseous) Product is not flammable.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined
Upper:	Not determined

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Vapor pressure at 745°C (1373°F):	1.33 hPa (1 mm Hg)
Density at 20°C (68°F):	3.13 g/cm ³
Solubility in / Miscibility with Water at 0°C (32°F):	1275 g/l

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Materials to be avoided:

Acids

Reducing agents

Alkali metals

Aluminum/aluminum alloys.

Magnesium

Metal powders

Light

Water/moisture

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition:

Hydrogen iodide (HI)

Metal oxide fume

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral	LDLo	1862 mg/kg (mus)
		916 mg/kg (rbt)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

Subacute to chronic toxicity:

Prolonged exposure to iodides may cause skin rash, running nose, headache and irritation of the mucous membranes. In severe cases the skin may show pimples, boils, redness, black and blue spots, hives and blisters. Iodides are readily diffused across the placenta.

Subacute to chronic toxicity:

Endocrine - toxic goiter hypofunction.

Biochemical - Metabolism (Intermediary) - effect on cyclic nucleotides.

The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:

Behavioral - convulsions or effect on seizure threshold.

Behavioral - somnolence (general depressed activity).

Behavioral - muscle weakness.

Behavioral - excitement.

Cardiac - other changes.

Lungs, Thorax, or Respiration - dyspnea.

Endocrine - other changes.

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Lungs, Thorax, or Respiration - other changes.
Nutritional and Gross Metabolic - weight loss or decreased weight gain.
Reproductive - Specific Developmental Abnormalities - endocrine system
Reproductive - Effects on Newborn - other neonatal measures or effects.
Reproductive - Effects on Newborn - physical.
Reproductive - Fertility - pre-implantation mortality (e.g. reduction in number of implants per female; total number of implants per corpora lutea)
Reproductive - Effects on Embryo or Fetus - fetotoxicity (except death, e.g., stunted fetus).
Reproductive - Effects on Newborn - behavioral.
Reproductive - Effects on Newborn - viability index (e.g., # alive at day 4 per # born live).
Reproductive - Fertility - post-implantation mortality (e.g. dead/or resorbed implants per total number of implants).
Reproductive - Effects on Embryo or Fetus - fetal death.
Reproductive - Effects on Newborn - growth statistics (e.g.%, reduced weight gain).
Reproductive - Maternal Effects - parturition.
Reproductive - Specific Developmental Abnormalities - Central Nervous System.
Reproductive - Effects on Newborn - delayed effects.
Additional toxicological information:
Possible risk of harm to the unborn child.
Reproductive effects have been observed on tests with laboratory animals.
Reproductive effects have been observed on tests with humans.
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:

Recommendation

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

Not a hazardous material for transportation.

DOT regulations:

Hazard class: None

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