

Section 1. Product and Company Identification

Product Name Potassium Iodate
CAS Number 7758-05-06

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Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing solids (Category 2), H272

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H272 May intensify fire; oxidizer.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary Statements

P210 Keep away from heat.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.



P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name Potassium Iodate
Formula KIO_3
CAS Number 7758-05-06

COMPONENT	CAS NUMBER	CONCENTRATION
Potassium Iodate	7758-05-06	98 - 100%

Section 4. First Aid Measures

Inhalation: Move victim to fresh air. Seek medical attention if breathing is distressed.
Skin Contact: Wash exposed area thoroughly with soap and water. Seek medical attention if irritation persists.
Eye Contact: Immediately flush eyes with water, remove contacts if present, flush with water for another 10 minutes. Seek medical attention if irritation persists.
Ingestion: Promptly drink large quantities of water.

Section 5. Firefighting Measures

Extinguishing Media: Water, carbon dioxide, or foam
Special Hazards: May produce toxic iodine or hydrogen iodide fumes. Will increase intensity of flames if exposed.
Additional Information: Firefighter should wear self-contained breathing apparatus, if possible.



Section 6. Accidental Release Measures

In case of spill, leak, or release: Large spills should be handled only by individuals trained in hazardous material handling. Keep combustibles such as wood, paper, oil, etc. away from spill. Wear appropriately respiratory devices and protective clothing when cleaning up spill. Use a non-combustible material such as sand or vermiculite to cover spill or soak up spill. Place spilled material in non-combustible and properly labeled drum. DO NOT dispose of in regular waste containers-may create spontaneous combustion. Flush area of spill with water after removing spill.

Method of waste disposal: Follow all local, municipal, state, and federal guidelines, if in the United States of America. For all other countries, consult local, regional, or country regulations as applicable to a hazardous product.

This material is hazardous.

Dry material must be placed in appropriate containers and disposed of in accordance with applicable governmental agencies for your location.

Section 7. Handling and Storage

Store in cool, dry location.

Protect from heat, light, moisture.

Must use with adequate ventilation.

Chemical resistant gloves must be worn.

Do NOT store near combustibles.

Wash hands thoroughly, immediately before and after use.

Safety glasses or goggles must be worn.

Do not use waterless hand cleaners.

Use good personal hygiene.

Section 8. Exposure Controls / Personal Protection

Control parameters

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Section 9. Physical and Chemical Properties

Appearance: White powder

Flash Point: Non-Flammable

Odor: Odorless

Est. Explosive Range Limit

LEL: Not Available

UEL: Not Available

Odor Threshold: Not Available

Flash Point: Not Applicable

pH: Not Available

Partition Coefficient: Not Available

Melting Point: Not Available

Decomposition Temperature: > 5000°C

Boiling Point: Not Applicable

Viscosity: Not Applicable

Vapor Pressure: Not Applicable

Explosive Properties: Not Explosive

Evaporation Rate: Not Applicable

Oxidizing Properties: Oxidizer

Solubility in Water: Very Soluble

Other Information: Contains Iodine

Section 10. Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid: Combustibles, reducing agents, organics, chlorinated compounds, and high heat (> 5400°C). Can react violently with organics, or finely powdered metals.

Incompatibility: Combustibles, reducing agents, organics, chlorinated compounds, and high heat (> 5400°C). Can react violently with organics, or finely powdered metals.

Hazardous Polymerization: Will not occur

Hazardous Decomposition: May release toxic iodine, hydrogen iodide, or potassium oxide fumes when exposed to heat.



Section 11. Toxicological Information

LD50 Oral: Not established

Not considered orally toxic except with extreme intake levels.

This product is considered a skin corrosive or irritant under normal exposure.

After exposure skin may become irritated and demonstrate redness, pain, dryness and itching.

Will cause eye irritation as evidenced by pain, redness and tearing of eyes.

Will be irritating to respiratory tract under normal conditions.

Avoid breathing dust.

Increased nasal mucous membrane production and increased tears in eyes may occur upon breathing dust.

Germ cell mutagenicity has not been conducted for this material.

This product does not contain any known carcinogens.

This product does not cause reproductive toxicity.

Section 12. Ecological Information

Toxicity: Not toxic to environment under U.S. EPA regulations.

Persistence/Degradation in Environment: Expected to completely degrade under typical circumstances under U.S. EPA standards.

Bioaccumulation: Does not accumulate under U.S. EPA standards.

Mobility in Soil: Not studied.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Americas Region: Oxidizer, Class C

Proper Shipping Name: Oxidizing solid, (Potassium iodate), N.O.S. 5.1

U.N. Number: UN 1479, PG II

International: Follow U.N. recommendations on The Transport of Dangerous Goods, 17th edition, revised

Ocean: Follow IMO International Maritime Dangerous Goods Code

Air: Follow IATA Dangerous Goods Regulation

Section 15. Regulatory Information

CERCLA Sec. 103 RQ#: NO

EHS 302 TPQ: NO

RCRA Sec. 261.33: NO

TSCA Listed?: YES



SARA Sec. 261.33 RQ#: NO
EPA Special Hazard: NO
SARA 312 Name List: NO
CA Prop 65: NO
SARA 313 Name List: NO
REACH Listed?: NO

SARA Section 312 Hazardous Categories

Immediate (acute) Health Hazard: YES
Delayed (chronic) Health Hazard: NO
Fire Hazard: NO
Reactivity Hazard: YES
Sudden Release of Pressure: NO

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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