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**MATERIAL SAFETY DATA SHEET (MSDS)****POTASSIUM IODATE AR****1. PRODUCT IDENTIFICATION**

**Synonyms:** Iodic acid, potassium salt  
**CAS No.:** 7758-05-6

Product Coad: P0167300500

**Molecular Weight:** 214.00  
**Chemical Formula:** KIO<sub>3</sub>

**2. Composition/Information on Ingredients**

| Ingredient       | CAS No    | Percent |
|------------------|-----------|---------|
| Potassium Iodate | 7758-05-6 | 100%    |

**3. Hazards Identification**

**Emergency Overview** DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY AFFECT CENTRAL NERVOUS SYSTEM, BLOOD, AND KIDNEYS.

**Inhalation:** May irritate the respiratory tract, with symptoms of coughing and possible shortness of breath. **Ingestion:** May cause gastrointestinal upset with symptoms of abdominal pain, vomiting, and diarrhea. Animal experiments suggest a potential for kidney and blood cell damage, similar to that of the bromates and chlorates.

**Skin Contact:** Possible irritation or reddening of moist skin on prolonged contact.

**Eye Contact:** No adverse effects expected but dust may cause mechanical irritation.

**4. First Aid Measures**

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

**Skin Contact:** Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:** Wash thoroughly with running water. Get medical advice if irritation develops.

**5. Fire Fighting Measures**

**Fire:** Not combustible but enhances the combustion of other substances. Strong oxidizing agent, can release gaseous oxygen when heated.

**Explosion:** May explode when exposed to mechanical shock or friction or can cause explosions with combustible or flammable materials or powdered metals.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

**6. Accidental Release Measures**

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

**7. Handling and Storage**

Store in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Protect container from physical damage. Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

**8. Exposure Controls/Personal Protection**

**Airborne Exposure Limits:** None established.

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

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ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

**9. Physical and Chemical Properties**

**Appearance:** White crystalline powder.

**Odor:** Odorless.

**Solubility:** 32 g in 100cc @100C

**Density:** 3.89

**pH:** No information found.

**% Volatiles by volume @ 21C (70F):** 0

**10. Stability and Reactivity**

**Stability:** Stable under ordinary conditions of use and storage. Strong oxidizing characteristics appear when mixed with acid solutions.

**Hazardous Decomposition Products:** Burning may produce toxic iodine vapors.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Reacts violently with combustible and reducing materials; aluminum, organic compounds, carbon, hydrogen peroxide, sulfides.

**Conditions to Avoid:** Heat, shock, friction, incompatibles.

**11. Toxicological Information**

N/A

**12. Ecological Information**

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

**13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**14. Transport Information**

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

**15. REGULATORY**

SARA Title III: N/A

Federal Regulatory: N/A

**16. Other Information**

**NFPA Ratings:** Health: 1 Flammability: 0 Reactivity: 1 Other: **Oxidizer**

**Label Hazard Warning:** DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY AFFECT CENTRAL NERVOUS SYSTEM, BLOOD, AND KIDNEYS.

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**Label Precautions:** Keep from contact with clothing and other combustible materials.

Store in a tightly closed container. Use only with adequate ventilation.

Remove and wash contaminated clothing promptly.

Wash thoroughly after handling.

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

**Label First Aid:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**