

## Safety Data Sheet (SDS)

# POTASSIUM IODATE

<b>1. Identification of the Substance</b>	<b>PRODUCT NAME:</b> Potassium Iodate <b>SYNONYM:</b> Iodic Acid Potassium Salt <b>DISTRIBUTOR:</b> EcoFusion Inc., PO Box 251408. Plano, TX 75025 – 1408 (USA) <b>TEL:</b> +1 972 403 7449 <b>FAX:</b> +1 214 291 5348 <b>EMERGENCY:</b> CHEMTREC 800 424 9300
<b>2. Hazards Identification</b>	<b>POTENTIAL HEALTH EFFECTS</b> Strong oxidizer. Contact with other material may cause a fire. Can be explosive when exposed to heat or flames. May cause kidney damage. May cause central nervous system effects. May cause severe eye, skin and respiratory tract irritation with possible burns. <b>EYES:</b> May cause eye irritation. May cause conjunctivitis. May cause permanent corneal opacification. <b>SKIN:</b> May cause severe irritation and possible burns. <b>INHALATION:</b> May cause acute pulmonary edema, asphyxia, chemical pneumonitis, and upper airway obstruction caused by edema. <b>INGESTION:</b> May cause burns to the gastrointestinal tract. May cause nausea, vomiting, and diarrhea, possibly with blood. <b>CHRONIC:</b> Prolonged or repeated skin contact may cause irritation. Prolonged or repeated exposure may cause gastrointestinal irritation and kidney damage. Chronic ingestion may cause central nervous system failure. Effects may be delayed.
<b>3. Composition / Information on Ingredients</b>	<b>CHEMICAL FORMULA:</b> KIO <sub>3</sub> <b>CAS NUMBER:</b> 7758-05-6 <b>MOLECULAR WEIGHT:</b> 214.001 <b>EINECS/ELINCS:</b> 231-831-9
<b>4. First Aid Measures</b>	<b>SKIN:</b> 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. Wash clothing before reuse. <b>EYES:</b> Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. <b>INGESTION:</b> Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid. <b>INHALATION:</b> 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. Do NOT use mouth-to-mouth resuscitation. Treat symptomatically and supportively.
<b>5. Fire Fighting Measures</b>	<b>EXTINGUISHING MEDIA:</b> Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out. For small fires, do NOT use dry chemicals, carbon dioxide, halon or foams. USE WATER ONLY. For large fires flood fire with water from a distance.

	<p><b>GENERAL INFORMATION:</b>                  As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with combustible materials may cause a fire. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. This material is an explosion hazard when exposed to heat, mechanical shock, or friction. Containers may explode when heated. Runoff to sewer may create fire or explosion hazard.</p>
<p><b>6. Accidental Release Measures</b></p>	<p><b>GENERAL INFORMATION:</b> Use proper personal protective equipment as indicated in Section 8.  <b>SPILLS:</b> Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition.</p>
<p><b>7. Handling and Storage</b></p>	<p><b>HANDLING:</b> Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with clothing and other combustible materials. Do not get on skin or in eyes. Avoid ingestion and inhalation. Avoid mechanical shock and friction.  <b>STORAGE:</b> Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from reducing agents.</p>
<p><b>8. Exposure Controls / Personal protection</b></p>	<p><b>ENGINEERING CONTROLS:</b>                  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. No OSHA Vacated PELs are listed for this chemical.  <b>PERSONAL PROTECTIVE EQUIPMENT</b>  <b>EYE:</b> 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.  <b>CLOTHING &amp; SKIN:</b> Wear appropriate gloves to prevent skin exposure. Wear a chemical apron. Wear appropriate clothing to prevent skin exposure.  <b>RESPIRATORS:</b> 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.</p>
<p><b>9. Physical and Chemical properties</b></p>	<p><b>PHYSICAL STATE:</b> White Solid  <b>ODOUR:</b> Odorless  <b>pH:</b> NA  <b>BOILING POINT:</b> 560 Deg F  <b>MOLECULAR WEIGHT:</b> 214.001  <b>SOLUBILITY:</b> Soluble in water  <b>MELTING POINT:</b> 1040 Deg F  <b>SPECIFIC GRAVITY:</b> 3.93</p>
<p><b>10. Stability and Reactivity</b></p>	<p><b>STABILITY:</b> Stable under normal temperature and pressure conditions.  <b>CONDITIONS TO AVOID:</b> High temperatures, incompatible materials, ignition sources, dust generation, combustible materials, reducing agents.  <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Irritating and toxic fumes and gases, oxides of potassium, iodine.  <b>HAZARDOUS POLYMERISATION:</b> will not occur.</p>

<b>11. Toxicological Information</b>	Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
<b>12. Ecological Information</b>	No information available
<b>13. Disposal Considerations</b>	In accordance with local and national regulations
<b>14. Transport Information</b>	Not classified as dangerous in transport regulations.
<b>15. Regulatory Information</b>	<b>TSCA</b> CAS# 7758-05-6 is listed on the TSCA inventory. <b>Chemical Test Rules</b> None of the chemicals in this product are under a Chemical Test Rule. <b>Risk Phrases:</b> R 22 Harmful if swallowed. R 8 Contact with combustible material may cause fire. <b>Safety Phrases:</b> S 17 Keep away from combustible material.
<b>16. Other Information</b>	N/A

*THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USERS' RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR THEIR OWN PARTICULAR USE.*

All non-emergency questions should be  
Directed to Customer Service at

**24 hour emergency Telephone: Chemtrec 800-424-9300**  
**National response in Canada: Canutec 613-996-6666**  
**Outside US & Canada: Chemtrec: 202-483-7616**

Note: Chemtrec and Canutec emergency numbers  
to be used only in the event of chemical  
emergencies involving a spill, leak, exposure or  
accident involving chemicals.