# MATERIAL SAFETY DATA SHEET OF IODIC ACID

## SECTION 1. PRODUCT IDENTIFICATION

**MSDS Name:** Iodic Acid
**Synonyms:** -
**Molecular Formula:** $HIO_3$
**Company Identification:** **Omkar Speciality Chemicals Ltd**
B-34, Unit-III, M.I.D.C. Badlapur (E),
Dist. Thane, 421 503.

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS# | Chemical Name | Percent | EINECS/ELINCS |
|---|---|---|---|
| 7782-68-5 | Iodic Acid | >99 | - |

## SECTION 3. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

**Potential Acute Health Effects:**
Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion. Very hazardous incase of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage orblindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking,
unconsciousness or death. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

## SECTION 4. FIRST AID

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

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid. 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.
**Notes to Physician:** Treat symptomatically and supportively.

## SECTION 5. FIRE AND EXPLOSION

**Flammability of the Product:** Non-flammable.
**Auto-Ignition Temperature:** Not applicable.
**Flash Points:** Not applicable.
**Flammable Limits:** Not applicable.
**Products of Combustion:** Not available.
**Fire Hazards in Presence of Various Substances:** Not applicable.
**Explosion Hazards in Presence of Various Substances:**
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in
presence of static discharge: Not available.
**Fire Fighting Media and Instructions:** Not applicable.
**Special Remarks on Fire Hazards:** Not available.
**Special Remarks on Explosion Hazards:** Not available.

## 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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## SECTION 7. HANDLING AND STORAGE

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances

## SECTION 8. PERSONAL PROTECTION/EXPOSURE CONTROLS

**Engineering Controls:**
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
**Personal Protection:**
Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
**Personal Protection in Case of a Large Spill:**
Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
**Exposure Limits:** Not available.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state and appearance:** Solid.
**Odor:** Not available.
**Taste:** Not available.
**Molecular Weight:** 175.91 g/mole
**Color:** Colorless to light yellow.
**pH (1% soln/water):** Not available.
**Boiling Point:** Not available.
**Melting Point:** Decomposes. (70°C or 158°F)
**Critical Temperature:** Not available.
**Specific Gravity:** 4.629 (Water = 1)
**Vapor Pressure:** Not applicable.
**Vapor Density:** Not available.
**Volatility:** Not available.
**Odor Threshold:** Not available.

## SECTION 10. REACTIVITY/STABILITY

**Stability:** The product is stable.
**Instability Temperature:** Not available.
**Conditions of Instability:** Not available.
**Incompatibility with various substances:** Extremely reactive or incompatible with reducing agents, combustible materials,
organic materials.
**Corrosivity:** Non-corrosive in presence of glass.
**Special Remarks on Reactivity:** Not available.
**Special Remarks on Corrosivity:** Not available.
**Polymerization:** No.

## SECTION 11. TOXICOLOGICAL INFORMATION

**Routes of Entry:** Eye contact. Inhalation. Ingestion.
**Toxicity to Animals:**
LD50: Not available. LC50: Not available.
**Chronic Effects on Humans:** The substance is toxic to kidneys, lungs, mucous membranes.
**Other Toxic Effects on Humans:**
Extremely hazardous in case of skin contact (corrosive, irritant), of ingestion. Very hazardous in case of inhalation.
**Special Remarks on Toxicity to Animals:** Not available.
**Special Remarks on Chronic Effects on Humans:** Not available.
**Special Remarks on other Toxic Effects on Humans:** Not available.

## SECTION 12. ECOLOGICAL INFORMATION

No information available.

## SECTION 13. DISPOSAL

**Waste Disposal:**
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14. TRANSPORTATION

**Shipping Name:** Not Regulated Not Regulated
**Hazard Class:**

**UN Number:**
**Packing Group:**

## SECTION 15. REGULATORY INFORMATION

**Federal and State Regulations:** TSCA 8(b) inventory: Iodic acid
**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
**Other Classifications:**
**WHMIS (Canada):**
CLASS C: Oxidizing material. CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive solid.
**DSCL (EEC):** R35- Causes severe burns.
**HMIS (U.S.A.):**
**Health Hazard:** 3
**Fire Hazard:** 0
**Reactivity:** 0
**Personal Protection:** j
**National Fire Protection Association (U.S.A.):**
**Health:** 3
**Flammability:** 0
**Reactivity:** 0
**Specific hazard:**
**Protective Equipment:**
Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

## SECTION 16 - ADDITIONAL INFORMATION

This document is intended only as a guide to the appropriate precautionary handling of material by a person taimed in chemical handling. The user is responsible for a determine the precautions & dangers of this chemical for his or her particular application depending on usage. Adequate protective clothing, including eye / face guards, approved respirators must be used to avoid contact with the material or breathing chemical vapors / fumes. exposure to this product may cause adverse health effects.

This chemical may interact with other substances. since the potential uses are so varied, m/s. Omkar Speciality Chemicals ltd. cannot warn of all of the potential dangers of use or interaction with chemicals of materials. M/s. Omkar Speciality Chemicals ltd. warrants that, the chemical meets the specifications set forth on the test report.

M/s. Omkar Speciality Chemicals Ltd. Disclaims any other warranties expressed or implied with regard to the product supplied hereunder its merchantability or its fitness for a particular purpose. The user should recognize that, this product can cause severe injury, especially if improperly handled or the known dangers of use are not heeded.

READ ALL PRECAUTIONARY INFORMATIONS.

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