1 Identification

- **Product identifier**
  - **Trade name**: Iodic acid
  - **Article number**: 218395
  - **CAS Number**: 7782-68-5
  - **EC number**: 231-962-1
- **Application of the substance / the mixture**: Laboratory chemicals for research and development
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier**: Beantown Chemical
  - **Address**: 9 Sagamore Park Road
  - **City**: Hudson, NH 03051
  - **Country**: USA
  - **Phone**: (603) 402-2234
  - **Fax**: (603) 402-9713
  - **Email**: technical@beantownchem.com
  - **Website**: www.beantownchem.com
- **Information department**: Technical Support Department
- **Emergency telephone number**: During normal operating hours, please call (603) 402-2234. After hours, please call Chemtrec at (800) 424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - **GHS05 Corrosion**
    - Skin Corr. 1A H314 Causes severe skin burns and eye damage.
    - Eye Dam. 1 H318 Causes serious eye damage.
- **Label elements**
- **GHS label elements**: The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
  - **GHS05**
- **Signal word**: Danger
- **Hazard-determining components of labeling**
  - **Hazard statements**: Causes severe skin burns and eye damage.
  - **Precautionary statements**: Do not breathe dusts or mist.
  - **First Aid Measures**: If ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - **Hazard Communication**: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)
Trade name: Iodic acid

Immediately call a poison center/doctor.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Substances
  - CAS No. Description
    - 7782-68-5 Iodic acid
  - Identification number(s)
    - EC number: 231-962-1

4 First-aid measures

- Description of first aid measures
  - General information: Immediately remove any clothing soiled by the product.
  - After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.

- Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:
  - Use neutralizing agent.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.

- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
7 Handling and storage

- **Handling:**
- Precautions for safe handling: Thorough decontamination.
- Information about protection against explosions and fires: Protect from heat.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.

- **Further information about storage conditions:**
  - Keep receptacle tightly sealed.
  - Protect from heat and direct sunlight.

- **Specific end use(s):** No further relevant information available.

8 Exposure controls/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.

- **Control parameters**
  - Components with limit values that require monitoring at the workplace: Not required.
  - Additional information: The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - **Personal protective equipment:**
  - General protective and hygienic measures:
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing.
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the eyes.
    - Avoid contact with the eyes and skin.
  - Breathing equipment: Not required.

- **Protection of hands:**
  - Protective gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles
## 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Information on basic physical and chemical properties</strong></td>
<td></td>
</tr>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Powder/Chunks</td>
</tr>
<tr>
<td>Color</td>
<td>Not determined</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range</td>
<td>Undetermined</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>Undetermined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Contact with combustible material may cause fire.</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto igniting</td>
<td>Not determined</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Density at 20 °C (68 °F):</td>
<td>2 g/cm³ (16.69 lbs/gal)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Organic solvents</td>
<td>0.0%</td>
</tr>
<tr>
<td>Solids content</td>
<td>100.0 %</td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

## 10 Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td></td>
</tr>
<tr>
<td>Chemical stability</td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition / conditions to be avoided</td>
<td>No decomposition if used according to specifications.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No dangerous reactions known.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>
Trade name: Iodic acid

- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
  - Primary irritant effect:
    - on the skin: Strong caustic effect on skin and mucous membranes.
    - on the eye:
      Strong caustic effect. Strong irritant with the danger of severe eye injury.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Carcinogenic categories

  - IARC (International Agency for Research on Cancer)
    Substance is not listed.

  - NTP (National Toxicology Program)
    Substance is not listed.

  - OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
  - Additional ecological information:
  - General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
# Safety Data Sheet


Printing date 06/22/2015  Reviewed on 12/01/2014

## Trade name: Iodic acid

### 14 Transport information

<table>
<thead>
<tr>
<th>UN-Number DOT, IMDG, IATA</th>
<th>UN3085</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN proper shipping name</strong></td>
<td>Oxidizing solid, corrosive, n.o.s. (iodic acid)</td>
</tr>
<tr>
<td>DOT</td>
<td>OXIDIZING SOLID, CORROSIVE, N.O.S. (iodic acid)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Class 5.1 Oxidizing substances</td>
</tr>
<tr>
<td>Label</td>
<td>5.1, 8</td>
</tr>
<tr>
<td>IMDG</td>
<td>Class 5.1 Oxidizing substances</td>
</tr>
<tr>
<td>Label</td>
<td>5.1/8</td>
</tr>
<tr>
<td>IATA</td>
<td>Class 5.1 Oxidizing substances</td>
</tr>
<tr>
<td>Label</td>
<td>5.1 (8)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packing group DOT, IMDG, IATA</th>
<th>II</th>
</tr>
</thead>
</table>

| Environmental hazards: | No |
| Marine pollutant: | No |

| Special precautions for user | Warning: Oxidizing substances |
| Danger code (Kemler): | 80 |

| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |

Transport/Additional information:

| DOT |  |
| Quantity limitations | On passenger aircraft/rail: 5 kg On cargo aircraft only: 25 kg |

| IMDG |  |
| Limited quantities (LQ) | 1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g |

| Exceuted quantities (EQ) |  |

| UN "Model Regulation": | UN3085, Oxidizing solid, corrosive, n.o.s. (iodic acid), 5.1 (8), II |

### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

| Section 355 (extremely hazardous substances): | Substance is not listed. |
| Section 313 (Specific toxic chemical listings): | Substance is not listed. |

(Contd. on page 7)
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- NFPA ratings (scale 0-4)
  Health = 4
  Fire = 3
  Reactivity = 0
  The substance possesses oxidizing properties.

- HMIS ratings (scale 0-4)
  Health = 4
  Fire = 3
  Reactivity = 0

- Department issuing SDS: Technical Support Department
- Contact: Technical Support Department
- Date of preparation / last revision 06/22/2015

- Abbreviations and acronyms:
  ADR: Accrd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
  Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1