

## **MATERIAL SAFETY DATA SHEET**

### **AMMONIUM IODATE**

**MSDS CAS: 13446-09-8**

#### **Section 1: Chemical Product and Company Identification**

##### Section 1: Chemical Product

**Product Name:** Ammonium Iodate**CAS#:** 13446-09-8**C.I. No.:** Not applicable.**Synonym:****Chemical Name:** Not available.**Chemical Formula:**  $H_4I_2NO_3$ **Brand:** OXFORD

##### Details Of The Supplier Of The Safety Data Sheet:

**Company identification: OXFORD LAB FINE CHEM LLP**  
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#### **Section 2: Composition and Information on Ingredients**

##### Composition:

Name	CAS #	% by Weight
Ammonium Iodate	13446-09-8	100

## Section 3: Hazards Identification

### Classification of the substance or mixture

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Contact with combustible material may cause fire. Irritating to eyes and skin.

### Label elements

### Labelling according Regulation (EC) No 1272/2008 [CLP]

#### Signal word

Danger

#### Hazard statement(s)

**H272** May intensify fire; oxidiser.

**H315** Causes skin irritation.

**H319** Causes serious eye irritation.

#### Precautionary statement(s)

**P220** Keep/Store away from clothing/ combustible materials.

**P305 + P351 + P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Supplemental Hazard

Statements none

### According to European Directive 67/548/EEC as amended.

#### R-phrase(s)

**R 8** Contact with combustible material may cause fire.

**R36/38** Irritating to eyes and skin.

#### S-phrase(s)

**S17** Keep away from combustible material.

**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S36** Wear suitable protective clothing.

Other hazards – none

## Section 4: First Aid Measures

### FIRST AID MEASURES

#### Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### Most important symptoms and effects, both acute and delayed

Nausea, Vomiting, Diarrhoea, Rash

##### Indication of any immediate medical attention and special treatment needed

no data available.

## Section 5: Fire and Explosion Data

### Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

nitrogen oxides (NO<sub>x</sub>), Hydrogen iodide

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

Use water spray to cool unopened containers.

## Section 6: Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

### **Reference to other sections**

For disposal see section 13.

## Section 7: Handling and Storage

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. Normal measures for preventive fire protection.

### **Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Air, light, and moisture sensitive.

### **Specific end uses**

no data available

## Section 8: Exposure Controls/Personal Protection

### Control parameters

Components with workplace control parameters

### 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**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).

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Powder with lumps

**Odor** : Not available.

**Taste** : Not available.

**Molecular Weight** : 192, 94 g/mole

## Section 9: Physical and Chemical Properties (Continued)

<b>Color</b>	: Not available.
<b>pH (1% soln/water)</b>	: Not available.
<b>Boiling Point</b>	: Not available.
<b>Melting Point</b>	: 150°C
<b>Flash Point</b>	: Not available.
<b>Critical Temperature</b>	: Not available.
<b>Specific Gravity</b>	: 1.28 (Water = 1)
<b>Vapor Pressure</b>	: Not applicable
<b>Vapor Density</b>	: Not available.
<b>Relative density</b>	: 3,309 g/mL at 25 °C
<b>Volatility</b>	: Not available.
<b>Odor Threshold</b>	: Not available.
<b>Water/Oil Dist. Coeff.</b>	: Not available
<b>Ionicity (in Water)</b>	: Not available.
<b>Dispersion Properties</b>	: Not available
<b>Solubility</b>	: Not available

## Section 10: Stability and Reactivity Data

**Reactivity:** no data available

**Chemical stability:** no data available

**Possibility of hazardous reactions:** no data available

**Conditions to avoid:** no data available

**Incompatible materials:** Strong reducing agents, Powdered metals, Incompatibility: mixtures of iodates with finely divided aluminum, arsenic, copper, carbon, phosphorous (red or white) sulfur; hydrides of alkali and alkaline earth metals; sulfides of antimony, arsenic, copper or tin, metal cyanides, thiocyanates or impure manganese dioxide may react violently or explosively, either spontaneously (especially in the presence of moisture) or on initiation by heat, friction impact, sparks, or addition of sulfuric acid.

**Hazardous decomposition products:** Other decomposition products - no data available

## Section 11: Toxicological Information

### Information on toxicological effects

**Acute toxicity:** no data available

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

### Carcinogenicity

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** no data available

**Specific target organ toxicity - single exposure:** no data available

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard:** no data available

### Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes serious eye irritation.

### Signs and Symptoms of Exposure

Nausea, Vomiting, Diarrhoea, Rash

## Section 12: Ecological Information

**Toxicity:** no data available

**Persistence and degradability:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**Results of PBT and vPvB assessment:** no data available

**Other adverse effects:** no data available



## Section 13: Disposal Considerations

### Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

## Section 14: Transport Information

### Land transport (ADR-RID)

**Proper shipping name** : OXIDIZING SOLID, N.O.S. (Ammonium iodate)  
**UN N°** : 1479  
**ADR – Class** : 5.1

### Sea transport (IMDG) [English only]

**Proper shipping name** : OXIDIZING SOLID, N.O.S. (Ammonium iodate)  
**UN N°** : 1479  
**IMO-IMDG - Class or division:** 5.1  
**IMO-IMDG - Packing group:** II

### Air transport (ICAO-IATA) [English only]

**Proper shipping name** : Oxidizing solid, n.o.s. (Ammonium iodate)  
**UN N°** : 1479  
**IATA - Class or division:** 5.1  
**IATA - Packing group** : II



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## **Section 15: Other Regulatory Information**

Safety, health and environmental regulations/legislation specific for the substance or mixture  
no data available

Chemical Safety Assessment  
no data available

## **Section 16 - Additional Information**

References: Not available.

Other Special Considerations: Not available.

### ***Disclaimer:***

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