

## **MATERIAL SAFETY DATA SHEET**

### **ALUMINIUM AAS STANDARD SOLUTION 1000 mg/l Al in Diluted HCl MSDS CAS:**

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

##### **Section 1: Chemical Product**

**Product Name:** ALUMINIUM AAS STANDARD SOLUTION 1000 mg/l Al in Diluted HCl

**CAS#:**

**Synonym:** Not Available

**Chemical Name:** Not Available

**Chemical Formula:** Not Available

**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**

**Substance / Preparation**

**: Preparation.**

## Section 2: Composition and Information on Ingredients (Continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
ALUMINIUM CHLORIDE (HEXAHYDRATE)	> 0.01 < 1 %	7784-13-6	231-208-1	013-003-00-7	-----	Xi; R36 ----- Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335
Hydrochloric acid	> =2 %	7647-01-0	231-595-7	017-002-01-X	-----	C; R34 Xi; R37 ----- Skin Corr. 1B _ H314 STOT SE 3 _ H335
Water	> 95 < 99 %	7732-18-5	231-791-2	-----	----	Not classified (DSD/DPD) ----- Not classified (GHS)

## Section 3: Hazards Identification

### Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45: Not classified.

### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP):

Health hazards : Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315

### Label elements

Labelling EC 67/548 or EC 1999/45 : Not classified.  
 Symbol(s) : None.  
 R Phrase(s) : None.  
 S Phrase(s) : None.  
 Contains : Water - Hydrochloric acid - ALUMINIUM CHLORIDE  
 (HEXAHYDRATE)

### Labelling Regulation EC 1272/2008 (CLP):

Signal words : Warning  
 Hazard statements: H315: Causes skin irritation.

## Section 3: Hazards Identification (Continued)

**H315** : Causes skin irritation.

### Precautionary statements

- **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.  
P264: Wash thoroughly after handling.
- **Response** : P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P332+P313: If skin irritation occurs: Get medical advice.  
P363: Wash contaminated clothing before reuse.

**Contains** : Water - Hydrochloric acid - ALUMINIUM CHLORIDE (HEXAHYDRATE)

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB Substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

### Description of first aid measures

**Inhalation** : Assure fresh air breathing. Allow the victim to rest. Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

**Skin contact** : Specific treatment (see on this label). Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice. Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

**Ingestion** : Obtain emergency medical attention. Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

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

**Symptoms relating to use:** Causes severe skin burns and eye damage. Causes skin irritation. May cause respiratory irritation.

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

**General information:** Never give anything by mouth to an unconscious person. If you feel unwell, seek Medical advice.

## Section 5: Fire and Explosion Data

### Extinguishing media

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
**Unsuitable extinguishing media** : Do not use a heavy water stream.  
**Surrounding fires** : Use water spray or fog for cooling exposed containers.

### Special hazards arising from the substance or mixture

**Hazardous combustion products:** Under fire conditions, hazardous fumes will be present. Thermal decomposition generates: Corrosive vapours.

### Advice for fire-fighters

**Protection against fire** : Do not enter fire area without proper protective equipment, including respirator protection.

### Special procedures

: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection.  
**For non-emergency personnel:** Evacuate unnecessary personnel.

**Environmental precautions:** Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### Methods and material for containment and cleaning up

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## Section 7: Handling and Storage

### Precautions for safe handling

**Handling** : Use only outdoors or in a well-ventilated area. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, and spray. Wash thoroughly after handling. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**Storage regulation:** Comply with applicable regulations.

**Storage - away from:** Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**Specific end use(s)** : None.

## Section 8: Exposure Controls/Personal Protection

### Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Skin protection** : Wear suitable protective clothing
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

### Control parameters

**Occupational Exposure Limits:** No data available.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

**Physical state at 20 °C** : Liquid  
**Colour** : Clear Colorless.  
**Odour** : Characteristic.

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

<b>Odour threshold</b>	<b>: No data available.</b>
<b>pH value</b>	<b>: No data available.</b>
<b>Melting point [°C]</b>	<b>: No data available.</b>
<b>Decomposition point [°C]</b>	<b>: N/A</b>
<b>Critical temperature [°C]</b>	<b>: No data available.</b>
<b>Auto-ignition temperature [°C]</b>	<b>: No data available.</b>
<b>Flammability (solid, gas)</b>	<b>: N/A</b>
<b>Flash point [°C]</b>	<b>: No data available.</b>
<b>Boiling point [°C]</b>	<b>: N/A</b>
<b>Initial boiling point [°C]</b>	<b>: No data available.</b>
<b>Final boiling point [°C]</b>	<b>: No data available.</b>
<b>Evaporation rate</b>	<b>: N/A</b>
<b>Vapour pressure [20°C]</b>	<b>: No data available.</b>
<b>Vapour pressure mm/Hg</b>	<b>: N/A</b>
<b>Vapour density</b>	<b>: N/A</b>
<b>Density [g/cm<sup>3</sup>]</b>	<b>: 1,02</b>
<b>Relative density, gas (air=1)</b>	<b>: N/A</b>
<b>Relative density, liquid (water=1)</b>	<b>: N/A</b>
<b>Solubility in water [% weight]</b>	<b>: No data available.</b>
<b>Solubility in water</b>	<b>: N/A</b>
<b>Log Pow octanol / water at 20°C</b>	<b>: No data available.</b>
<b>Solubility</b>	<b>: No data available</b>
<b>Viscosity at 40°C [mm<sup>2</sup>/s]</b>	<b>: No data available.</b>

**Other information**

<b>Explosive properties</b>	<b>: N/A</b>
<b>Explosion limits - upper [%]</b>	<b>: No data available.</b>
<b>Explosion limits - lower [%]</b>	<b>: No data available.</b>
<b>Oxidising properties</b>	<b>: No data available.</b>

## Section 10: Stability and Reactivity Data

**Reactivity** : Not established.

### Chemical stability

**Chemical stability** : Stable under recommended storage conditions.

### Possibility of hazardous reactions

**Hazardous reactions** : Not established.

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

**Materials to avoid** : Strong acids. Strong bases.

**Hazardous decomposition products:** Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

## Section 11: Toxicological Information

### Information on toxicological effects

**Toxicity information** : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

### Acute toxicity

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

**Corrosion** : Causes severe skin burns and eye damage.

**Irritation** : Causes skin irritation. May cause respiratory irritation.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** Based on available data, the classification criteria are not met.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.



## Section 12: Ecological Information

### Toxicity

**Toxicity information:** The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

**Persistence - degradability:** Biodegradable.

**Bioaccumulative potential :** Not established.

**Mobility in soil :** Not established.

**Results of PBT and vPvB assessment:** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### Other adverse effects

**Environmental precautions:** Avoid release to the environment

## Section 13: Disposal Considerations

### Waste treatment methods

**General:** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## Section 14: Transport Information

### Land transport (ADR-RID)

Proper shipping name : HYDROCHLORIC ACID  
UN N° : 1789  
H.I. nr : 80  
ADR – Class : 8



## Section 14: Transport Information (Continued)

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

**Proper shipping name:** HYDROCHLORIC ACID  
**UN N°:** 1789  
**IMO-IMDG - Class or division:** 8: Corrosive substance.  
**IMO-IMDG - Packing group:** III

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

**Proper shipping name:** HYDROCHLORIC ACID  
**UN N°:** 1789  
**IATA - Class or division:** 8: Corrosive substance.  
**IATA - Packing group:** III

## Section 15: Other Regulatory Information

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

**Safety, health and environmental:** Ensure all national/local regulations are observed.  
**Regulations/legislation**  
Specific for the substance or mixture

**REACH Restrictions - Annex XVII:** The components of this product are not subject to restrictions.  
**REACH Authorization - Annex XIV:** The components of this product are not subject to authorization.

### Chemical Safety Assessment

**Chemical Safety Assessment:** It has not been carried out.

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## **Section 16 - Additional Information**

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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