

MATERIAL SAFETY DATA SHEET

ALUMINIUM AAS STANDARD SOLUTION 1000 mg/l Al in Diluted HNO₃ 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 HNO₃

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
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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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 NITRATE (NONAHYDRATE) 98%	> 1 < 5 %	7784-27-2	-----	-----	-----	O; R8 Xi; R36 ----- Ox. Sol. 1 _ H271 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315
Nitric acid	> 1 < 5 %	7697-37-2	231-714-2	007-004-00-1	-----	O; R8 C; R35 ----- Ox. Liq. 1 _ H271 Skin Corr. 1A _ H314
Water	> 75 < 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:

Classification : Xi; R36/38

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

Symbol(s) : Xi; Irritant

R Phrase(s) : R36/38: Irritating to eyes and skin.

S Phrase(s) : S24: Avoid contact with skin.

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

S35: This material and its container must be disposed of in a safe way.

S36/37: Wear suitable protective clothing and gloves.

S51: Use only in well-ventilated areas.

S59: Refer to manufacturer/supplier for information on recovery/recycling.

Section 3: Hazards Identification (Continued)

Contains : Water - Nitric acid - ALUMINIUM NITRATE (NONAHYDRATE) 98%

Labelling Regulation EC 1272/2008 (CLP):

Signal words : Warning

Hazard statements: 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 - Nitric acid - ALUMINIUM NITRATE (NONAHYDRATE) 98%

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.

Skin contact : Wash contaminated clothing before reuse. Wash with plenty of soap and water. If Skin irritation occurs: Specific treatment (see on this label). Get medical advice.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or Redness persist.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use: Causes skin irritation.

Indication of any immediate medical attention and special treatment needed

Section 4: First Aid Measures (Continued)

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.

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 : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as Possible. Collect spillage. Store away from other material

Section 7: Handling and Storage

Precautions for safe handling

Handling : Wash thoroughly after handling.

Technical protective measures: Provide good ventilation in process area to prevent formation of vapour.

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 - 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 : Colorless
Odour : Characteristic.

Section 9: Physical and Chemical Properties (Continued)

Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: No data available.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: N/A
Flash point [°C]	: No data available.
Boiling point [°C]	: N/A
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: N/A
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm³]	: 1,02
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: No data available.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: No data available
Viscosity at 40°C [mm²/s]	: No data available.

Other information

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

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.

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.

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.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
UN N° : 3264
H.I. nr : 80
ADR – Class : 8

Section 14: Transport Information (Continued)

Sea transport (IMDG) [English only]

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

UN N°: 3264

IMO-IMDG - Class or division: 8: Corrosive substance.

IMO-IMDG - Packing group: III

Air transport (ICAO-IATA) [English only]

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

UN N°: 3264

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.

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