OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

BISMUTH AAS STANDARD SOLUTION
1000mg/l Bi In Diluted HNO_3

MSDS CAS :-

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: BISMUTH AAS STANDARD SOLUTION 1000mg/l Bi In Diluted HNO_3
CAS#:
C.I. No.: Not available.
Synonym: Not available.
Chemical Name: Not available.
Chemical Formula:
Molecular Weight:

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

Composition:

Name	CAS #	% by Weight
BISMUTH METAL GRANULAR 99.5%	7440-69-9	
NITRIC ACID	7697-37-2	
WATER	7732-18-5	

Section 3: Hazards Identification

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.

Contains: Water - Nitric acid - BISMUTH (METAL) GRANULAR 99.5%

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

Inhalation: Assure fresh air breathing. Allow the victim to rest.

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

Section 4: First Aid Measures (Continued)

Eye contact: **Get medical advice. If eye irritation persists , Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.**

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 serious eye irritation.Causes skin 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 (show the label where possible).**

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 respiratory 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.Ventilate area.

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 materials.

Reference to other sections: Exposure controls/personal protection.

Section 7: Handling and Storage

Precautions for safe handling:

Handling: Wash thoroughly after 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 closed when not in use.

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

Specific end use(s): None.

Section 8: Exposure Controls/Personal Protection

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 and Appearance	: Colourless Liquid
Odour	: Characteristic
Odour threshold	: Not available
pH	: Not available
Melting point	: 210 - 214 °C
Boiling point	: Not available
Flash point	: Not available
Auto-Ignition temperature	: Not available
Decomposition point [°C]	: Not available
Critical temperature [°C]	: Not available
Flammability (solid, gas)	: Not available
Vapour pressure [20°C]	: Not available
Vapour pressure mm/Hg	: Not available
Density [g/cm3]	: Not available
Solubility in water	: Not available

Section 10: Stability and Reactivity Data

Reactivity: Not established.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Not established.

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

Incompatible materials:
Materials to avoid: Strong acids. Strong bases.

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

Section 11: Toxicological Information

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: Based on available data, the classification criteria are not met.
Irritation: Causes serious eye 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 information: The product has been not fully tested. The calculated risk has been done under therequirements 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**
Labelling - Transport	**: 8 : Corrosive substance.**
ADR - Group	**: III**

Section 14: Transport Information (Continued)

Sea transport (IMDG)

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)

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 thesubstance or mixture.

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

Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

Revision: See : *

Abbreviations and acronyms: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative.

Section 16 - Additional Information (Continued)

Sources of key data used: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3): R8 : Contact with combustible material may cause fire.R35 : Causes severe burns.List of full text of H-statements in: H271 : May cause fire or explosion; strong oxidizer.

Section 3: H314 : Causes severe skin burns and eye damage.

Further information: None.

Disclaimer:

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The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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