

MATERIAL SAFETY DATA SHEET

DRAGENDORFF'S REAGENT

(Test reagent For Alkaloids)

MSDS CAS: -

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: DRAGENDORFF'S REAGENT

CAS#: -

Synonym: Not Available.

Chemical Name: Dragendorff's Reagent

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,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
BISMUTH SUBNITRATE 71%	> 5 < 10 %	10361-46-3	-----	-----	----	Xi; R36 ----- Not classified (GHS)

Section 2: Composition and Information on Ingredients (Continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Nitric acid	> 15 < 25 %	7697-37-2	231-714-2	007-004-00-1	----	O; R8 , C; R35 ----- Ox. Liq. 1 _ H271 Skin Corr. 1A _ H314
Yoduro potásico	> 15 < 25 %	7681-11-0	----	----	----	Xn; R22 , Xi; R36/38 ----- Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315
Water	> 50 < 75 %	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: C; R35

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

Health hazards: Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

Eye irritation - Category 2A - Warning (CLP: Eye Irrit. 2) H319

Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s): C: Corrosive

R Phrase(s):

R35: Causes severe burns.

S Phrase(s):

S24: Avoid contact with skin.

Section 3: Hazards Identification (Continued)

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

S28: After contact with skin, wash immediately with

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

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

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

Contains: Water - Yoduro potásico - Nitric acid - BISMUTH SUBNITRATE 71 %

Labelling Regulation EC 1272/2008 (CLP)

Hazard statements:

H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

Precautionary statements

Prevention: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

Response:

P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.

P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P337+P313: If eye irritation persists: Get medical advice/attention.

Storage: P405: Store locked up.

Disposal considerations:

P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Contains: BISMUTH SUBNITRATE 71 % - Nitric acid - Yoduro potásico - Water

Other hazards

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:

Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

Skin contact:

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

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. Immediately call a POISON CENTER or doctor.

Ingestion:

Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use: Causes severe skin burns and eye damage. 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.

Thermal decomposition generates: Corrosive vapours.

Section 5: Fire and Explosion Data (Continued)

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

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.

Section 7: Handling and Storage

Precautions for safe handling

Handling:

Handle empty containers with care because residual vapours are flammable. Wash thoroughly after handling. Wash thoroughly after handling. Take precautionary measures against static discharge. Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, and spray. Wash thoroughly after handling. Wash thoroughly after handling. Wash thoroughly after handling.

Technical protective measures:

Provide good ventilation in process area to prevent formation of vapour.

Section 7: Handling and Storage (Continued)

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 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.

Section 9: Physical and Chemical Properties

Physical state at 20 °C	: Liquid.
Colour	: Colorless
Odour	: Characteristic.
Odour threshold	: No data available.
Molecular Weight	: No data available.
pH value	: No data available.
Melting point [°C]	: No data available.

Section 9: Physical and Chemical Properties (Continued)

Decomposition point [°C]	: Not Available.
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: No data available.
Flash point [°C]	: No data available.
Boiling point [°C]	: 77 °C
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: Not Available.
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: 17.535 mm of Hg (@ 2
Vapour density	: 0,62
Density [g/cm3]	: 1,02
Relative density, gas (air=1)	: Not Available.
Relative density, liquid (water=1)	: Not Available.
Solubility in water [% weight]	: Soluble in water
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: No data available.
Viscosity at 40°C [mm2/s]	: No data available.

Section 10: Stability and Reactivity Data

Reactivity

Reactivity: Not established.

Chemical stability

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions: Not established.

Conditions to avoid

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

Section 10: Stability and Reactivity Data (Continued)

Incompatible materials

Materials to avoid: Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.
May release flammable gases.

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 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

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

Persistence - degradability

Persistence - degradability: Biodegradable.

Bioaccumulative potential

Bioaccumulative potential: Not established.

Mobility in soil

Mobility in soil: Not established.

Results of PBT and vPvB assessment

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: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

UN N°: 2924

H.I. nr: 20110

ADR - Class: 3

Labelling - Transport: 3: Flammable liquid. 8: Corrosive substance.

ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

UN N°: 2924

IMO-IMDG - Class or division: 3: Flammable liquid. (8: Corrosive substance.)

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

UN N°: 2924

IATA - Class or division: 3: Flammable liquid. (8: Corrosive substance.)

IATA - Packing group: II

Section 15: Other Regulatory Information

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

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

Ensure all national/local regulations are observed.

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

Chemical Safety Assessment: It has not been carried out.

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com



Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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.

Oxford Lab Fine Chem LLP makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Oxford Lab Fine Chem LLP will not be responsible for damages resulting from use of or reliance upon this information.