

MATERIAL SAFETY DATA SHEET

ZENKER'S FIXING

(For Microscopy)

MSDS CAS: -

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: ZENKER'S FIXING

Synonym:

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,
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

Substance / Preparation : Preparation.

Hazardous component(s) : This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	Classification
Mercury dichloride; Mercuric chloride	> 5 < 10 %	7487-94-7	231-299-8	080-010-00-X	Muta. Cat. 3; R68 Repr. Cat. 3; R62 T+; R28 T; R48/24/25 C; R34N; R50-53 -----

Section 2: Composition and Information on Ingredients (Continued)

Substance name	Contents	CAS No	EC No	Annex No	Classification
					Acute Tox. 1 (oral) _ H300 Skin Corr. 1B _ H314 Eye Dam 1 _ H318 STOT RE 1 _ H372 Muta. 2 _ H341 Repr. 2 _ H361f Aquatic Acute 1 _ H400 Aquatic Chronic 1 _ H410
Sodiumsulfate	> 1 < 5 %	7757-82-6	231-820-9	-----	Not classified (DSD/DPD) ----- Not classified (GHS)
Potassium dichromate	> 1 < 5 %	7778-50-9	231-906-6	024-002-00-6	R45 R46T; R60 T; R61T+; R26T; R25-48/23 Xn; R21C; R34 R42/43N; R50-53 ----- Acute Tox. 2 (inhal) _ H330 Acute Tox. 3 (oral) _ H301 Acute Tox. 4 (skin) _ H312 Aquatic Acute 1 _ H400
Water	> 75 < 99 %	7732-18-5	231-791-2	-----	Not classified (DSD/DPD) ----- Not classified (GHS)

Section 3: Hazards Identification

2.1. Classification of the substance or mixture:

Classification EC 67/548 or EC 1999/45:

Classification

Carc. Cat. 2; R45
Muta. Cat. 2; R46
Repr. Cat. 2; R60-61
T; R25
Xn; 48/21/22
Xi; R36/38
N; R51-53

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

Section 3: Hazards Identification (Continued)

Health hazards: Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350 Reproductive toxicity - Fertility - Category 1B - Danger (CLP : Repr. 1B) H360 Reproductive toxicity - Unborn Child - Category 1B - Danger (CLP : Repr. 1B) H360 Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP :STOT RE 2) H373 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319 Germ cell mutagenicity - Category 1B - Danger (CLP : Muta. 1B) H340 Acute toxicity, Oral - Category 2 - Danger (CLP : Acute Tox. 2) H300 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Environmental hazards: Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2) H411

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.

Other hazards: • Potassium dichromate: 294.2

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: Get medical advice. Specific treatment (see on this label).

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

Ingestion: Rinse mouth. Do NOT induce vomiting. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed:

Symptoms relating to use: May cause cancer. May cause genetic defects. Causes damage to organ. Fatal if swallowed. May damage fertility. Causes serious eye irritation. Causes skin irritation. May damage the unborn child.

Indication of any immediate medical attention and special treatment needed:

General information: P308+P313: If exposed or concerned: get medical advice. Never give anything by Mouth to an unconscious person. If exposed or concerned: get 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 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. Avoid release to the environment.

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. Store away from other materials. Collect spillage.

Reference to other sections: See section 8. Exposure controls/personal protection

Section 7: Handling and Storage

7.1. Precautions for safe handling:

Handling: Obtain special instructions before use. Wash thoroughly after handling. Eliminate all ignition sources if safe to do so. Wash thoroughly after handling.

Section 7: Handling and Storage (Continued)

Technical protective measures: Provide good ventilation in process area to prevent formation of vapour.
Special precautions: Avoid breathing dust, fume, gas, mist, vapours, and spray.

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. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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

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

Section 8: Exposure Controls/Personal Protection

Exposure controls:

Personal protection:

- | | |
|---------------------------|--|
| • Respiratory protection: | Avoid all unnecessary exposure.
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.
Occupational Exposure Limits:	Potassium dichromate: MAC [mg/m ³]: 0.03
Potassium dichromate:	HTP-värden - 8 H - [mg/m ³]: 5

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

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

Section 9: Physical and Chemical Properties (Continued)

Density [g/cm ³]:	1,056
Solubility in water:	No data available.
Log Pow octanol / water at 20°C:	No data available.
Solubility:	N/A
Viscosity at 40°C [mm ² /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: Stable under recommended storage conditions.

Possibility of hazardous reactions: Not established.

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

Incompatible 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: Fatal if swallowed.

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: May cause genetic defects.

Section 11: Toxicological Information (Continued)

Carcinogenicity: May cause cancer.

Toxic for reproduction: May damage fertility. May damage the unborn child.

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

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

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

Section 12: Ecological Information

Toxicity information: Toxic to aquatic life with long lasting effects.

Persistence - degradability: May cause long-term adverse effects in the environment.

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.

Results of PBT and vPvB assessment: • Potassium dichromate: 294.2

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.

Special precautions: Hazardous waste due to toxicity.

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 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: TOXIC LIQUID, INORGANIC, N.O.S.

UN N°: 3287

H.I. nr: 60

ADR - Class: 6.1

Sea transport (IMDG) [English only]

Proper shipping name: TOXIC LIQUID, INORGANIC, N.O.S.

UN N°: 3287

IMO-IMDG-Class or division: 6.1: Toxic substances. (9: Miscellaneous dangerous substances and articles.)

IMO-IMDG - Packing group: II

IMO- IMDG - Packing instructions: P001

Air transport (ICAO-IATA) [English only]

Proper shipping name: TOXIC LIQUID, INORGANIC, N.O.S.

UN N°: 3287

IATA - Class or division: 6.1: Toxic substances. (9: Miscellaneous dangerous substances and articles.)

IATA - Packing group: II

Section 15: Other Regulatory Information

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

REACH Restrictions - Annex XVII: With the exception of those listed below:

The components of this product are not subject to restrictions.

• Potassium dichromate: Annex XVII

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.

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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:

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