OXFORD LAB FINE CHEM LLP

Regd Office: Unit no 12, 1st Floor,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

18-CROWN-6-ETHER 99%

(For Synthesis)

(1,4,7,10,13,16-hexaoxacyclooctadecane)(Store at 2-8°C)

MSDS CAS: 17455-13-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: 18-CROWN-6-ETHER
CAS#: 17455-13-9
Synonym: Not Applicable.
Chemical Name: 18-Crown-6-Ether
Chemical Formula: $C_{12}H_{24}O_6$

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
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
18-Crown-6-Ether	17455-13-9	100

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Section 3: Hazards Identification

Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Classification: Xn; R22, Xi; R36/37/38

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards:
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP: STOT SE 3) H335
Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315
Acute toxicity, Oral - Category 4 - Warning (CLP: Acute Tox. 4) H302
Eye irritation - Category 2A - Warning (CLP: Eye Irrit. 2) H319

Label elements
Labelling EC 67/548 or EC 1999/45
R Phrase(s):
R22: Harmful if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.

S Phrase(s):
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36: Wear suitable protective clothing.

Labelling Regulation EC 1272/2008 (CLP)
Hazard statements:
H302: Harmful if swallowed.
H319: Causes serious eye irritation.
H315: Causes skin irritation.
H335: May cause respiratory irritation.

Precautionary statements
Prevention:
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Section 3: Hazards Identification (Continued)

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P332+P313: If skin irritation occurs: Get medical advice.
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.
P363: Wash contaminated clothing before reuse.

Storage:

P403+P233: Store in well-ventilated place. Keep container tightly closed.
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.

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:

Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact:

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

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. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

Section 4: First Aid Measures (Continued)

Most important symptoms and effects, both acute and delayed

Symptoms relating to use:

Swallowing a small quantity of this material will result in serious health hazard.
Causes serious eye irritation.
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 (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.**

Section 6: Accidental Release Measures (Continued)

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

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

Special precautions: Avoid breathing dust, fume, gas, mist, vapors, and spray.

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.

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.

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Section 9: Physical and Chemical Properties

Physical state at 20 °C	**: Solid.**
Colour	**: White powder.**
Odour	**: Not Available.**
Odour threshold	**: No data available.**
Molecular Weight	**: 264.32 g/mole.**
pH value	**: Not applicable.**
Melting point [°C]	**: 42 - 45 °C.**
Decomposition point [°C]	**: Not Available.**
Critical temperature [°C]	**: Not Available.**
Auto-ignition temperature [°C]	**: Not Available.**
Flammability (solid, gas)	**: Not Available.**
Flash point [°C]	**: 113 °C.**
Boiling point [°C]	**: Not Available.**
Initial boiling point [°C]	**: Not Available.**
Final boiling point [°C]	**: Not Available.**
Evaporation rate	**: Not Available.**
Vapour pressure [20°C]	**: Not Available.**
Vapour pressure mm/Hg	**: Not Available.**
Vapour density	**: Not Available.**
Density [g/cm3]	**: Not Available.**
Relative density, gas (air=1)	**: Not Available.**
Relative density, liquid (water=1)	**: Not Available.**
Solubility in water [% weight]	**: Not Available.**
Solubility in water	**: Not Available.**
Log Pow octanol / water at 20°C	**: No data available.**
Solubility	**: Not Available.**
Viscosity at 40°C [mm2/s]	**: Not Available.**

<u>Other information</u>

Explosive properties	**: Not Available.**
Explosion limits - upper [%]	**: Not Available.**
Explosion limits - lower [%]	**: Not Available.**
Oxidizing properties	**: 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.

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

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

Section 11: Toxicological Information

Information on toxicological effects
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: Harmful 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: 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: Not established.

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)

General information: Not regulated.

Section 14: Transport Information (Continued)

Sea transport (IMDG) [English only]

General information: Not regulated.

Air transport (ICAO-IATA) [English only]

General information: Not regulated.

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 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.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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