OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CRYOLITE POWDER 98.5%

(Sodium Hexafluoroaluminate)
Extra Pure
MSDS CAS: 15096-52-3

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: CRYOLITE POWDER
CAS#: 15096-52-3
Synonym: Sodium Hexafluoroaluminate
Chemical Name: Cryolite Powder
Chemical Formula: Na_3AlF_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,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Cryolite Powder	15096-52-3	100

Section 3: Hazards Identification

Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification: T; R48/23/25, Xn; R20/22, N; R51-53

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

Health hazards:

Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger (CLP: STOT RE 1) H372
Acute toxicity, Inhalation - Category 4 - Warning (CLP: Acute Tox. 4) H332
Acute toxicity, Oral - Category 4 - Warning (CLP: Acute Tox. 4) H302

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

Label elements

Labelling EC 67/548 or EC 1999/45

R Phrase(s):

R20/22: Harmful by inhalation and if swallowed.
R48/23/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s):

S22: Do not breathe dust.
S37: Wear suitable gloves.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
S61: Avoid release to the environment. Refer to special instructions/Safety datasheets.

Labelling Regulation EC 1272/2008 (CLP)

Hazard statements:

H302: Harmful if swallowed.
H332: Harmful if inhaled.
H372: Causes damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P271: Use only outdoors or in a well-ventilated area.
P260: Do not breathe dust, fume, gas, mist, vapours, and spray.
P273: Avoid release to the environment.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

Section 3: Hazards Identification (Continued)

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P391: Collect spillage.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P314: Get medical advice if you feel unwell.

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:

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

Skin contact:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact:

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion:

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

Most important symptoms and effects, both acute and delayed

Symptoms relating to use:

Causes damage to organs through prolonged or repeated exposure.
Danger of serious damage to health by prolonged exposure through inhalation.
Swallowing a small quantity of this material will result in serious health hazard.

Section 4: First Aid Measures (Continued)

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

Environmental precautions: **Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.**

Section 6: Accidental Release Measures (Continued)

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. Do not breathe dust, fume, gas, mist, vapours, and spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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

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.

Section 8: Exposure Controls/Personal Protection

Exposure controls

Personal protection: Avoid all unnecessary exposure.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

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

Physical state at 20 °C	**: Solid.**
Colour	**: White powder.**
Odour	**: Not Available.**
Odour threshold	**: No data available.**
Molecular Weight	**: 209.94 g/mole.**
pH value	**: Not applicable.**
Melting point [°C]	**: No data available.**
Decomposition point [°C]	**: Not Available.**
Critical temperature [°C]	**: Not Available.**
Auto-ignition temperature [°C]	**: Not Available.**
Flammability (solid, gas)	**: Not Available.**
Flash point [°C]	**: Not Available.**
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: Harmful if inhaled.
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: Based on available data, the classification criteria are not met.
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: Causes 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

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

Persistence - degradability

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

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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N°: 3077

Section 14: Transport Information (Continued)

H.I. nr: 90
ADR - Class: 9
Labelling - Transport: 9: Miscellaneous dangerous substances and articles.
ADR - Group: III

Sea transport (IMDG) [English only]

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N°: 3077
IMO-IMDG - Class or division: 9: Miscellaneous dangerous substances and articles.
IMO-IMDG - Packing group: III

Air transport (ICAO-IATA) [English only]
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N°: 3077
IATA - Class or division: 9: Miscellaneous dangerous substances and articles.
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 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.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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