OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

ALUMINIUM OXIDE CALCINED 99%
(Extra Pure)
MSDS CAS: 1344-28-1

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: ALUMINIUM OXIDE CALCINED
CAS#: 1344-28-1
Synonym: AluminAR® CC-10; Aluminum oxide; Alumina; activated Alumina; alpha-Alumina

Chemicals Name:
Chemical Formula Al O (contains about 11-12% bound water)

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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Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
ALUMINIUM OXIDE CALCINED	1344-28-1	90 - 100%

Section 3: Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate
Flammability Rating: 0 - None
Reactivity Rating: 0 - None
Contact Rating: 2 - Moderate
Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES
Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation: **Hazard is principally that of a nuisance dust. Coughing or shortness of breath may occur in cases of excessive inhalation.**

Ingestion: **No adverse effects expected.**

Skin Contact: **May cause irritation with redness and pain.**

Eye Contact: **No adverse effects expected but dust may cause mechanical irritation.**

Chronic Exposure: **No adverse effects expected.**

Aggravation of Pre-existing Conditions: **Not expected to be a health hazard.**

Section 4: First Aid Measures

Inhalation: **Remove to fresh air. Get medical attention for any breathing difficulty.**
Ingestion: **Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.**
Skin Contact: **Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.**
Eye Contact: **Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.**

Section 5: Fire and Explosion Data

Fire: **Not considered to be a fire hazard.**
Explosion: **Not considered to be an explosion hazard.**
Fire Extinguishing Media: **Use any means suitable for extinguishing surrounding fire.**
Special Information: **Use protective clothing and breathing equipment appropriate for the surrounding fire and to protect against the aluminum oxide dust that may be dispersed in the air.**

Section 6: Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dus dispersal.

Section 7: Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Limits:

Alumina (Aluminum Oxide):
-OSHA Permissible Exposure Limit (PEL): alpha alumina, 15 mg/m3 total dust, 5 mg/m3 respirable fraction
-ACGIH Threshold Limit Value (TLV): 1 mg/m3 respirable fraction (TWA) Aluminum metal and insoluble compounds, A4

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the

Section 8: Exposure Controls/Personal Protection (Continued)

maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9: Physical and Chemical Properties

Physical state and appearance	**: White powder**
Odor	**: Odorless.**
Taste	**: Not available.**
Molecular Weight	**: 101.96 g/mole**
Color	**: Not available.**
pH (1% soln/water)	**: Not applicable.**
Boiling Point	**: 2980C (5396F)**
Melting Point	**: ca. 2000C (ca. 3632F)**
Critical Temperature	**: Not available.**
Specific Gravity	**: Not available.**
Vapor Pressure	**: Not applicable.**
Vapor Density	**: 4.0 @ 20C/4C**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: Not available.**
Solubility	**: Not available.**

Section 10: Stability and Reactivity Data

Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: No information found.
Hazardous Polymerization: Will not occur.
Incompatibilities: Chlorine trifluoride, Ethylene oxide.
Conditions to Avoid: Incompatibles.

Section 11: Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen.

--------\Cancer Lists\----------

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Aluminum Oxide (1344-28-1)	No	No	None

Section 12: Ecological Information

Environmental Fate:
No information found.

Environmental Toxicity:
No information found.

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

Land transport (ADR-RID)

General Information: Not Regulated

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: Ensure all national/local regulations are observed.
Regulations/legislation specific for the Substance or mixture

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

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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