



MATERIAL SAFETY DATA SHEET

COMPLIES WITH 29 CFR 1910.1200.

OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 05-09-96

CHEMICAL IDENTITY

LABEL IDENTITY	LANTHANUM OXIDE
CHEMICAL NAME/SYNONYMS	LANTHANA
FORMULA	La₂O₃
CHEMICAL FAMILY	RARE EARTH OXIDE
CAS REGISTRY NUMBER	1312-81-8
CALCULATED MOLECULAR WEIGHT	325.81
HAZARDOUS INGREDIENTS	LANTHANUM OXIDE
%: 100	TLV & OSHA/PEL: specific information not available similar to:
	Gd₂O₃: 1000mg/kg

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM AND ODOR	ND
BOILING POINT	ND
DENSITY (gm/cc)	6.51
VAPOR PRESSURE @ 20°	NA
% VOLATILE BY VOLUME (%)	0
REACTION WITH WATER	NA
EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	.0004
MELTING POINT	2315

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	None
AUTOIGNITION TEMPERATURE (°C)	ND
FLAMMABILITY	Non-flammable
EXTINGUISHING MEDIA	Non-flammable
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE & EXPLOSIVE HAZARDS	None



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HEALTH HAZARD INFORMATION

TOXICITY DATA **No data**
HMIS RATING:
HEALTH: **nd** FLAMMABILITY: **nd** REACTIVITY: **nd** PERSONAL PROTECTION: **nd**

ROUTES OF ENTRY

INHALATION:	ND
SKIN:	ND
INGESTION:	ND

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: **ND**
EFFECTS OF OVEREXPOSURE (acute and chronic):
INHALATION: **No data**
INGESTION: **No data**
DERMAL/EYE: **Irritation**
OTHER: **Delayed blood clotting, also liver injury in experimental animals**

CARCINOGENICITY: **Nd** NTP: **Nd** IARC MONOGRAPHS: **Nd** OSHA REGULATE: **Nd**

EMERGENCY FIRST AID PROCEDURES:
INGESTION: **no data**
INHALATION: **no data**
SKIN: **no data**
EYE: **flush thoroughly with water for at least 15 minutes, consult a physician**

REACTIVITY DATA

STABILITY	Stable (to 2300°C)-store in cool, dry place
CONDITIONS CONTRIBUTING TO UNSTABILITY	Heat, moisture (see above)
INCOMPATIBILITY (MATERIALS TO AVOID)	Dilute mineral acids
HAZARDOUS DECOMPOSITION PRODUCTS	ND
HAZARDOUS POLYMERIZATION	Will Not Occur
CONDITIONS TO AVOID	ND



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SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Material can be gathered up using ordinary procedures (sweep or scoop into sealed containers); dust masks and gloves should be worn.

WASTE DISPOSAL METHOD:

Consult federal, state and local regulations for proper disposal. Material is not an environmental hazard.

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION	NIOSH approved mask for dusts & fumes
LOCAL EXHAUST	Recommended
MECHANICAL (general)	ND
SPECIAL	ND
PROTECTIVE GLOVES	Neoprene
EYE PROTECTION	Safety glasses
OTHER PROTECTIVE EQUIPMENT	ND

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

Store in a cool, dry place.

TRANSPORTATION REQUIREMENTS	DOT CLASS:	Not Classified
	UN NUMBER:	Not Classified
	IMCO CLASS:	Not Classified
	OTHER:	No data

PRECAUTIONARY LABELING **NONE**

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

NA= NOT APPLICABLE

ND= NO DATA FOUND