

SAFETY DATA SHEET

1. Identification

Product identifier: Lanthanum Oxide

Other means of identification Product No.: 4991, P351

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name:	Avantor Performance Materials, Inc.
Address:	3477 Corporate Parkway, Suite 200
	Center Valley, PA 18034
Telephone:	
	Customer Service: 855-282-6867
Fax:	
Contact Person:	Environmental Health & Safety
e-mail:	info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard Classification	Not classified		
Label Elements Hazard Symbol:	No symbol		
Signal Word:	No signal word.		
Hazard Statement:	Not applicable		
Precautionary Statement	Not applicable		

Other hazards which do not None. result in GHS classification:

3. Composition/information on ingredients

Substances

Composition Comments: The components are not hazardous or are below required disclosure limits.

4. First-aid measures



General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.				
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell.				
Inhalation:	Move to fresh air. Get medical attention if symptoms persist.				
Skin Contact:	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.				
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.				
Most important symptoms/effect	s, acute and delayed				
Symptoms:	May cause irritation to skin, eyes, and respiratory tract.				
Indication of immediate medical a	ttention and special treatment needed				
Treatment:	Treat symptomatically. Symptoms may be delayed.				
5. Fire-fighting measures					
General Fire Hazards:	In case of fire and/or explosion do not breathe fumes.				
Suitable (and unsuitable) extingu	ushing media				
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.				
Unsuitable extinguishing media:	Water.				
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.				
Special protective equipment an	d precautions for firefighters				
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.				
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.				
6. Accidental release measure	s				
Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.				
Methods and material for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.				
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.				
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.				
SDS_US - SDS000001249	2/8				



7. Handling and storage Precautions for safe handling: Avoid dust formation. Take precautionary measures against static discharge. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling. Conditions for safe storage, Keep containers tightly closed. Store in cool, dry place. Store in a wellincluding any ventilated place. incompatibilities: 8. Exposure controls/personal protection **Control Parameters Occupational Exposure Limits** None of the components have assigned exposure limits. Appropriate Engineering No data available. Controls Individual protection measures, such as personal protective equipment **General information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye/face protection: Use tight fitting goggles if dust is generated. **Skin Protection** Hand Protection: Wear protective gloves. Other: Wear suitable protective clothing. **Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. Physical and chemical properties

Appearance

Physical state:	Solid
Form:	No data available.
Color:	White
Odor:	Odorless
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	2,315 °C
Initial boiling point and boiling range:	4,200 °C
Flash Point:	Not Applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.



Upper/lower limit on flammability or explosive limits

No data available.
No data available.
Practically Insoluble
No data available.
325.8 g/mol (La2O3)

10. Stability and reactivity

Reactivity:	The product reacts with water and will generate heat.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Contact with incompatible materials. Contact with acids. Water, moisture. Avoid dust formation.
Incompatible Materials:	Strong oxidizing agents. Water reactive material. Chlorine trifluoride
Hazardous Decomposition Products:	None known.

11. Toxicological information

Information on likely routes of Ingestion:	exposure May cause irritation of the gastrointestinal tract.
Inhalation:	May cause irritation to the respiratory system.
Skin Contact:	May cause irritation.
Eye contact:	May cause temporary eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	No data available.
Dermal Product:	No data available.
Inhalation Product:	No data available.



Repeated Dose Toxicity Product:	No data available.					
Skin Corrosion/Irritation Product:	May cause skin irritation.					
Serious Eye Damage/Eye Irritati Product:	on May irritate eyes.					
Respiratory or Skin Sensitizatio Product:	n Not a skin sensitizer.					
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.					
IARC Monographs on the No carcinogenic component	Evaluation of Carcinogenic Risks to Humans: s identified					
US. National Toxicology P No carcinogenic component	rogram (NTP) Report on Carcinogens: s identified					
US. OSHA Specifically Reg No carcinogenic component	gulated Substances (29 CFR 1910.1001-1050): s identified					
Germ Cell Mutagenicity						
In vitro Product:	No mutagenic components identified					
In vivo Product:	No mutagenic components identified					
Reproductive Toxicity Product:	No components toxic to reproduction					
Specific Target Organ Toxicity - Product:	Single Exposure No data available.					
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.					
Aspiration Hazard Product:	Not classified					
Other Effects:	None known.					
12. Ecological information						
Ecotoxicity:						
Acute hazards to the aquatic e	environment:					
Fish						
n David set	Na data availabla					

No data available.

Product:



Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	F) No data available on bioaccumulation.
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Mobility in Soil:	No data available.
Other Adverse Effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.
14. Transport information	

DOT

Not regulated.

IMDG

Not regulated.

ΙΑΤΑ

Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.



Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

	Acute (Immediate)	Chron	ic (Delayed)		Fire	Х	Reactive		Pressure Generating
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SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

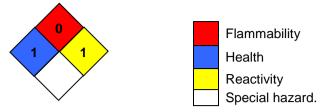
Inventory Status:

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Japan ISHL Listing: Japan Pharmacopoeia Listing: On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory.

16.Other information, including date of preparation or last revision



NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date:	10-31-2014
Revision Date:	No data available.
Version #:	1.0
Further Information:	No data available.
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