

4 First aid measures

Safety Data Sheet

Skyspring Nanomaterials, Inc.

www.ssnano.com

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1 Identification of substance:
    Product details:
    Product name: Lanthanum boride
    Stock number: 4430DX
    Manufacturer/Supplier:
    SkySpring Nanomaterials, Inc.
    2935 Westhollow Dr., Houston, TX 77082, USA
    Phone: 281-870-1700, Fax: 281-870-8002, Email: sales@ssnano.com
2 Composition/Data on components:
    Chemical characterization:
                Description: (CAS#)
    Lanthanum boride (CAS# 12008-21-8), 100%
    Identification number(s):
    EINECS Number: 234-531-6
3 Hazards identification
    Hazard description: · Not applicable
    Information pertaining to particular dangers for man and
    environment
    · Not applicable
    Classification system
    HMIS ratings (scale 0-4)
      (Hazardous Materials Identification System)
    Health (acute effects) = 1
    Flammability = 0
    Reactivity = 0
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After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

5 Fire fighting measures

Suitable extinguishing agents Product is not flammable. Use fire fighting measures that suit the surrounding fire.

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting: Pick up mechanically.

Additional information:

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

Handling

Information for safe handling:

Keep container tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions are necessary if used correctly.

Information about protection against explosions and fires: The product is not flammable

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Do not store together with acids. Store away from halogens.

Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

Additional information: No data

Personal protective equipment

General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves
Eye protection: Safety glasses
Body protection: Protective work clothing.
9 Physical and chemical properties:
General Information

Form: Powder

Color: Violet

Odor: Odorless

Value/Range Unit

Method

Change in condition 2210 ° C Melting point/Melting range: Boiling point/Boiling range: Not determined Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Product is not flammable. Not determined Ignition temperature: Decomposition temperature: Not determined Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Not determined Upper: Not determined Vapor pressure: Not determined

Density:	at	20 ° C	2.61 g/cm ³
Solubility in /	Miscibility	with	
Water:		Inso	luble
0 Stability and rea	ctivity		
Thermal decompos Decomposition wi specifications.			e avoided: d stored according t
Materials to be Acids Halogens	avoided:		
Dangerous reacti gases	ons Contact	with acids	releases flammable
Dangerous produc Metal oxide fume		position:	
Flammable gases/			
	vapors		
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Flammable gases/ 1 Toxicological inf Acute toxicity: Primary irritant on the skin: May on the eye: May Sensitization: N Subacute to chro Boron effects th causes depressio and diarrhea, fo temperature may may cover the en Lanthanons can c hemorrhages. Exp	cause irrit cause ause ause ause ause ause ause ause	ation ng effects k y: ervous syste rculation, p rofound shoc ormal and a d blood clot lso lead to	m. Boron poisoning ersistant vomiting k and coma. The scarletina form rash
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of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information:

General notes: Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:

Recommendation Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

Not a hazardous material for transportation.

DOT regulations:

Hazard class: None

Land transport ADR/RID (cross-border)

ADR/RID class: None

Maritime transport IMDG:

IMDG Class: None

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

Transport/Additional information:

Not dangerous according to the above specifications.

15 Regulations

Product related hazard informations:

Observe the general safety regulations when handling chemicals

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL).

Information about limitation of use: For use only by technically qualified individuals.

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.