

Safety Data Sheet

Skyspring Nanomaterials, Inc.

www.ssnano.com

Revision Date: 02/01/2016

1 Identification of substance.		
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Product details:		
Trade name: Boron oxide		
Product number: 1520DX		
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:		
Formula : B ₂ O ₃ CAS-No. 77704-22-4		
3 Hazards identification		
Emergency Overview OSHA Hazards Irritant HMIS Classification Health Hazard: 2 Flammability: 0 Physical hazards: 0 NFPA Rating Health Hazard: 2 Fire: 0 Reactivity Hazard: 0 Potential Health Effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation. Ingestion May be harmful if swallowed.		
4 First aid measures		
 General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled 		

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 Fire fighting measures

Flammable properties Flash point not applicable Ignition temperature no data available Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6 Accidental release measures

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions Do not let product enter drains.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7 Handling and storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place.

8 Exposure controls and personal protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection Handle with gloves. Eye protection Safety glasses Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work place. Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 Physical and chemical properties:

Appearance Form:

solid

Safety data pH no data available Meting point 450 °C (842 °F) Boiling point no data available Flash point no data available Ignition temperature no data available Dyper explosion limit no data available Dyper explosion limit no data available Density 2.474 g/mL at 25 °C (77 °F) Water solubility no data available 10 Stability and reactivity Storage stability Storage stability no data available 11 Stability and reactivity Avoid moisture. Materials to avoid acids, Hydroxides Hazardous decomposition products Hazardous decomposition products Hazardous decomposition products Hazardous decomposition products 11 Toxicological information Acute toxicity no data available Irritation and corrosion no data available Chronic exposure IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACCIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No	Safaty data		
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no data available Ecotoxicity effects	12 Ecological information:		
no data available Further information on ecology			
no data available	no data available		

13 Disposal considerations

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14 Transport information

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

15 Regulations

OSHA Hazards Irritant **DSL Status** This product contains the following components that are not on the Canadian DSL nor NDSL lists. Boron oxide, CAS-No. 77704-22-4 SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Boron oxide CAS-No. 77704-22-4 **Revision Date New Jersey Right To Know Components** Boron oxide CAS-No. 77704-22-4 **Revision Date** California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement 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.