



Safety Data Sheet

Skyspring Nanomaterials, Inc.

www.ssnano.com

Revision Date: 02/01/16

1 Identification of substance:

Product details: Boehmite Nanoparticle

Product number: 1315TB

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 name: Boehmite, [ALOOH],

CAS-No: 1318-23-6

EINECS-No: 215-284-3

Weight: >99 %

R/S-sentences: None

3 Hazards identification

Danger indication: None

Special comments on danger for people and environment: None

For additional information on toxicity, please refer to Section 11.

4 First aid measures

Inhalation: Move to fresh air. Consult a physician if necessary.

Skin contact : Mechanical (dry) removal. Subsequent rinsing with water.

Eye contact: Intensive rinsing with water. Consult a physician if necessary.

Ingestion: Rinse out mouth and give plenty of water to drink. Seek medical advice.

5 Fire fighting measures

Suitable extinguishing media: Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Unsafe extinguishing media: None.

Special exposure hazards : None.

Special protective equipment: None.

6 Accidental release measures

Personal precautions: Avoid dust formation. In case of exposure to high levels of airborne dust, wear a personal respirator in compliance with national legislation.

Environmental precautions : No special environmental precautions required.

Methods for clean-up: Take up mechanically. Dispose of absorbed material in accordance within the regulations.

7 Handling and storage

Handling: Avoid dust formation. No special handling advice required.

Storage: Dry storage.

8 Exposure controls and personal protection

Exposure limits:

OSHA-PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable dust)

ACGIH-TWA: 10 mg/m³ (Value is for particulate matter containing no asbestos and <1% crystalline silica)

Personal protection:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. When dust concentration is above the exposure limits, workers have to use appropriate certified respirators.

Hand protection: Wear suitable gloves.

Eye protection: Wear safety glasses/goggles to avoid eye contact.

Skin protection: No special protective equipment required.

Hygiene measures: Do not eat, drink or smoke when handling. Wash hands after handling and before eating.

Other/general protection: None.

Environmental exposure controls: No information available.

9 Physical and chemical properties:

Physical state: Powder

Color: White

Odor: Odorless

pH: 9 - 10

Solubility in water: Insoluble

Density: 3,0 g/cm³ (20 ° C)

Vapor pressure: Not applicable

Boiling point: Not applicable

Melting point: Decomposes before melting

Flash point : Not applicable

Flammability: Not applicable

Auto ignition: Not applicable

Octanol-Water coefficient: Not applicable

10 Stability and reactivity

Stability: Stable under normal conditions. Loss of water and decomposition starts at 340 °C.

Conditions to avoid: None

Hazardous reactions: No hazardous reactions known.

Hazardous polymerisation : Will not occur.

Hazardous decomposition: None

Additional information: Soluble in strong acids and caustic solutions.

11 Toxicological information

The product is non-toxic.

Acute oral toxicity: Rat, DL₅₀ : >5000 mg/kg

Skin irritation: No effect.

Eye irritation: No effect.

Inhalation: May cause irritation of respiratory tract.

Ingestion: No information available.

Sensitization: No effect.

Carcinogenicity: No known carcinogenic hazardous effects.

There is no evidence of any mutagenous or toxic effect on reproduction.

12 Ecological information:

Boehmite generates no risk for the environment. There is no ecotoxic classification for boehmite.

Algae toxicity: Algae, ErC50 > 100 mg/l

Daphnia toxicity: Daphnia, EC50 > 100 mg/l.

13 Disposal considerations

Waste disposal : Reuse or recycle when possible.

Dispose of in accordance with local regulations.

Spoiled packages: Empty containers should be taken for local recycling, recovery or waste disposal.

Further information: Can be landfilled, when in compliance with local regulations.

14 Transport information

Land transport

ADR, RID, GGVS, GGVE Not classified as hazardous goods.

River transport

ADN, ADR Not classified as hazardous goods.

Sea transport

IMDG, GGVSee Not classified as hazardous goods.

Air transport

ICAO-TI, IATA-DGR Not classified as hazardous goods.

DOT Not regulated

15 Regulatory information

Labelling according to EC Directives: Not defined, product is not hazardous.

Water hazard class: Not hazardous to water.

R-phrases: Not applicable.

S-phrases: Not applicable.

Symbols: None

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.