

HAGEN automation



1. IDENTIFICATION

Material: Hex Boron Nitride (hBN) Powder 99% Pure 70 Nanometre aps
Powdered Lubricant

Supplier: Hagen Automation Ltd

Address:

Hagen Automation, Greybern House, Templars Way, Sharnbrook, MK441PY United Kingdom
Emergency Tel: 0044 7739 854 883

2. COMPOSITION

Hexagonal Boron Nitride powder
CAS NUMBER 10043-11-5 - 100%

Symptoms relating to use: Not classified as Hazardous in normal usage.

3. HAZARDS IDENTIFICATION

Emergency Overview

WHMIS Classification

Not WHMIS controlled.

Not a dangerous substance according to GHS.

HMIS Classification

Health hazard: 0

Flammability: 0

Physical hazards: 0

Potential Health Effects:

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

4. FIRST AID MEASURES

Inhalation - if symptoms of pulmonary involvement develop, remove from exposure and seek medical attention.

Skin contact - if irritation occurs, thoroughly wash affected area with mild soap and water and prevent further contact, contact medical help if irritation persists.

Eye contact - if irritation occurs, flush with copious amounts of Water, contact medical help if irritation persists.

Ingestion - if substantial quantities are swallowed, give person (if conscious) a large quantity of water to wash mouth out and drink, and seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: N/A

Flammability Limits: N/A

In case of fire, may emit toxic fumes.

No Fire Hazard, Use extinguishing agents suitable for surrounding fire.

Special Procedures: Use a self-contained breathing apparatus to prevent inhalation of Dust, Mist or fumes that may be generated during fire fighting activities.

No Unusual fire or explosion hazards.

Suitable extinguishing media: Dry Sand, Special Metal extinguishing powder.

6. ACCIDENTAL RELEASE MEASURES

Note: Very slippery, proceed with caution!

If Spilled or Released: Ventilate area of spill, clean up using methods which avoid dust generation, such as Vacuuming with appropriate filter, wet dust mop, or wet clean up.

Precautionary measures regarding persons: Remove source of ignition. Avoid formation and deposition of dust. Ensure effective ventilation.

Use the PPE (Personal Protective Equipment) as per chapter 8

(European Union: Note German Technical Regulation on Dangerous Substances No. 200/201)

7. HANDLING AND STORAGE

Maintain good housekeeping procedures to prevent accumulation of dust. Use clean-up methods which minimise dust generation.

Storage: Keep in sealed containers in a dry place. Material is Hygroscopic.

(European Union: Observe the rules contained in the VCI concept for separate/common storage.

Observe official regulations. Storage class as per VCI: 11)

7.1 Specific End Use(s):

Powdered Lubricant. Lubricant additive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Use an appropriate approved respirator to with filter type P according to DIN EN 143. If airborne dust levels exceed the TLV, appropriate requirements set forth in 29 CFR 1910.134 should be met.

Wash thoroughly after handling and before eating, smoking and end of work shift. Do not shake clothing to remove dust. Avoid inhalation, ingestion and direct skin contact

Ventilation: Use local exhaust which is adequate to limit exposure levels below TLV.

Gloves: Recommended

Eye Protection: Recommended

Respirator/mask: Recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odour: WHITE POWDER, NO ODOUR

PH value: N/A
Boiling Point: N/A
Melting Point: N/A
C (decomposition)
Vapor Pressure (mm HG): N/A
Vapor Density (air=1): N/A
Solubility in Water: N/A
Specific Gravity: (H₂O=1) 2.29g/cm³
Percent Volatile by Volume: N/A
Evaporation Rate: N/A
How Best Monitored: AIR SAMPLE
Non-Hazardous Ingredients
Material: Hex Boron Nitride
Percent by Weight: 100

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions to avoid: Moisture
Incompatible Materials to Avoid: Strong oxidising agents
Hazardous Decomposition Products: N/A

11. TOXICOLOGICAL INFORMATION

Inhalation Not expected to prevent a significant inhalation hazard under anticipated conditions of normal use. Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation.

Dermal Repeated or prolonged exposure may have a defatting effect or cause dermatitis.

Ocular Redness, pain may occur.

Toxicological tests: Not investigated

12. ECOLOGICAL INFORMATION

On Product Prevent entry to sewers and public water ways.

Ecological Effects No data available - considered non hazardous

Aquatic toxicity: Not investigated

13. DISPOSAL INFORMATION

General Dispose of in a safe manner in accordance with local/national regulations

Disposal method In accordance with local/national regulations may be taken to waste disposal site.

Disposal of used packaging Use a licensed waste disposal contractor.

14. TRANSPORT INFORMATION

Transport: Not classified as hazardous for transport.

15. REGULATORY INFORMATION

EC Classification: The material is not dangerous for transport or supply.

Risk Phrases

Irritating to eyes and respiratory system. S: 26-36

Safety Phrases:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

16. OTHER INFORMATION

NIL

References:

* European agreement concerning the international carriage of dangerous goods by road (ADR) volumes I & II 1999

* Commission Directive 93/112/EC of 10/12/93, (O.J. No. 314 of 16/12/93 pg 38)

* Council Directive 67/548/EEC and all appropriate A.T.P'S

[?] Important Note:

1. Before any product is used the label should be carefully read and current safety literature and information consulted.

2. The product information in this Data Sheet is to the best of Hagen Automation's knowledge correct as at the date of publication. User should contact Hagen Automation for updated advice and in any event satisfy themselves that the product is entirely suitable for their purpose.