



Material Safety Data Sheet

BD Tuff Beads

Date Prepared: 6/30/2006

Section I - Product and Company Identification

- Product Name: BD Tuff Beads
- Chemical Name: polystyrene/silicon dioxide
- Package Size: 50 # sacks
- Chemical Family: Polystyrene
- Chemical Formula: Proprietary
- CAS Reg. No.: n/a
- Supplier: Bulldog Chemicals
29030 Lake Houston Lane
Huffman, TX 77336
Emergency Telephone: 281-360-7315

Section II – Composition

- Polystyrene/silicon dioxide TLV for ACGHI 10mg/M
- Styrene (100-42-5)50 ppm OSHA PEL=50ppm
- STEL=100ppm

Section III – Physical and Chemical Properties

- Appearance: colorless to white beads or pellets
- Vapor Pressure: n/a Odor: none
- Solubility in Water: insoluble Specific Gravity: 1.8 – 2.0
- Boiling Point: n/a Melting Point: n/a

Section IV – Fire and Explosion Data

- Extinguishing media: Water spray, CO₂, dry chemical, foam
- Special fire fighting procedures: Firefighters must be equipped with self-contained breathing apparatus and turn-out gear. Dense smoke produced during burning may obscure view. Fight fire from a safe or protected area, or apply intermittent fog to cool and protect firefighters. Beads on hard smooth surfaces create a serious slipping hazard which may interfere with firefighting unless covered over. Quench large fires by targeting the molten mass center with copious amounts of water; uncooled interiors may regenerate fire.
- If exposed to fire, high heat will be developed and a dense black smoke will result. Emits toxic fumes during combustion (carbon dioxide, carbon monoxide). A static charge is generated during handling which can discharge in the form of a spark. Dissipation of the static is difficult due to insulating property of the material. Good grounding techniques must be employed. Do not store flammables near handling area.



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Section V – Stability and Reactivity

- Stability: stable under normal conditions of storage and use
- Reactivity: avoid excessive heat, ignition sources, open flames
- Hazardous Decomposition: CO, CO₂
- Hazardous Polymerization: will not occur

Section VI – Health Hazard Data

- Acute Effects: none
- Ingestion: may cause gastrointestinal irritation.
- Eyes: Small particles may cause irritation or injury to eye surface. Discomfort, redness, tearing may occur.
- Skin: none
- Inhalation: Emits toxic fumes when heated to decomposition (carbon dioxide, carbon monoxide). Nuisance dust may cause irritation with possible difficulty breathing.
- Chronic Effects: IARC not listed; OSHA not listed; NTP not listed.
- Medical conditions aggravated by exposure: none known.
- First Aid Procedures: Eyes: flush with large amounts of water for 30 minutes. If irritation persists, get medical attention.
Ingestion: not expected to require first aid.
Inhalation: move victim to fresh air at once. Perform artificial respiration if breathing has stopped. Get medical attention.
Skin: wash thoroughly with soap and water. Remove contaminated clothing.

Section VII – Precautions for Safe Handling and Use

- Keep work area floors clean, beads on hard smooth surfaces create a serious slipping hazard. Walkways should be covered with open grating or a coarse granular material.
- In case of accidental release or spillage, collect and contain material away from ignition sources.
- Contact local authorities for proper disposal.
- Handle only in well ventilated areas. Avoid breathing dust.
- Store in cool dry place, keep away from ignition sources.
- Non-static creating shoes and clothing should be worn.
- Electronically ground all equipment used in processing and handling.



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Section VIII – Exposure Controls, Personal Protection

- Ventilation: Local exhaust and ventilation system is recommended if handled in a confined area to control below recommended exposure areas.
- Respiratory Protection: Use NIOSH approved nuisance dust respirator.
- Eye Protection: Use safety glasses with side shields.
- Skin Protection: Use long-sleeved clothing and gloves.

Section IX – Toxicological Information

- Carcinogenic review: Animal positive (subcutaneous implantation) IARC 19,231, 79

Section X – Ecological Information

- No ecological information is available.

Section XI – DOT Information

- Proper Shipping Name: Not regulated by DOT as a hazardous material.
- Hazard Class: none
- UN Number: none
- Packing Group: none

Section XII – Regulatory Information

- OSHA (29 CFR 1910.1200) This product should be included in a hazard communication program.
- RCRA : none
- CERCLA : not subject to reporting.
- NFPA Hazard Codes : Health:1, Flammability: 0, Reactivity: 0, Special Hazards: 0