



BULLDOG
CHEMICALS_{LLC}

MATERIAL SAFETY DATA SHEET

1. PRODUCT COMPANY AND IDENTIFICATION

Trade Name TUFF-FIBER

Generic Description Minerals and Fibers Blend

Manufacturer/Supplier Bulldog Chemicals Inc.

Address 29030 Lake Houston Lane
Huffman, TX 77336

Phone Number

Emergency Number 281-360-7315

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Material or Component	CAS Number	Percentage
Calcium Carbonate*	471-34-1	20 - 60%
Calcium Carbonate produced from Limestone varies naturally – typically contains quartz (crystalline silica).	14808-60-7	> 1
Natural Plant Fibers		40 - 80%

3. HAZARD IDENTIFICATION

Hazard Data May cause irritation to skin, eyes, and respiratory tract.

Health 1

Flammability 0

Reactivity 0 Ratings based on NFPA

Inhalation

Excessive concentrations of a nuisance dust may cause nuisance condition such as coughing, sneezing, and nasal irritation.

Skin Contact

Not expected to be a health hazard from skin exposure. May cause minor irritation.

Eye Contact

May cause irritation to the eye.

Ingestion

Non-toxic. No adverse effects for normal, incidental ingestion.

Chronic Health Effects

Excessive oral ingestion may cause hypercalcemia and alkalosis.

Medical Conditions Aggravated by Exposure

None known.

4. FIRST AID MEASURES**Inhalation**

Remove person to fresh air. Get medical attention for any breathing difficulty.

Skin Contact

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact

Wash thoroughly with running water for at least 15 minutes. Get medical advice if irritation develops.

Ingestion

If large amounts were ingested, give water to drink and get medical advice.

Advice to Physicians

Treat symptomatically.

5. FIRE FIGHTING MEASURES**Flash Point**

Not applicable

Flammable Limits

Not applicable

Fire Extinguishing Media

Use media applicable to surrounding material (this material will not support combustion)

Unusual Fire and Explosion Hazard

None

6. ACCIDENTAL RELEASE MEASURES**Release or Spill:**

Collect and hold for disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Personal Precautions:

Wear appropriate personal protective equipment specified in Section 8.

Environmental Precautions: None

7. HANDLING AND STORAGE

Respirable crystalline silica-containing dust may be generated during processing, handling and storage. The personal protection and controls identified in Section 7 of the MSDS should be used as appropriate. Do not store near food and beverages or smoking material. Store in a cool, dry, ventilated area. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Airborne Exposure Limits

OSHA Permissible Exposure Limit (PEL) 15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts. For respirable quartz levels that exceed an 8-hr TWA of 0.1 mg/m³, a NIOSH approved dust respirator is recommended. For respirable quartz levels that exceed an 8-hr TWA of 0.5 mg/m³, a NIOSH approved positive pressure, full face respirator or equivalent is recommended. Respirator use must comply with MSHA or OSHA standards, which include provisions for a user training program, respirator repair and cleaning, respirator fit testing, and other requirements.

Ventilation Requirements

A system of local and/or general exhaust is recommended.

Respiratory Protection

Use NIOSH approved dust respirator.

Skin Protection: Wear long sleeved clothing and gloves.

Eye Protection: Safety glasses with side shields. Maintain eye wash station in work area.

Other Protection Equipment/Clothing: As appropriate for work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	fibers & powder
Color	gray
Odor	None
pH	7.0-9.0 in aqueous solution
Specific Gravity	0.39
Bulk Density, average	26
Boiling Range/Point	Not applicable
Flash Point	Not applicable
Explosion Limits (%)	Not applicable
Solubility in Water	< 10%
Vapor Density (Air=1)	Not applicable

Evaporation Rate (butyl acetate=1) Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

Materials to Avoid: None expected.

Hazardous Polymerization: Not known to polymerize.

Hazardous Decomposition: When heated to decomposition (825 C) emits calcium oxide fumes and liberates carbon dioxide.

11. TOXICOLOGICAL INFORMATION

No acute toxicity data is available for product or components. Not listed on NTP, IARC or OSHA carcinogen lists.

12. ECOLOGICAL INFORMATION

No ecotoxicity data is available. This product is not expected to present an environmental hazard.

13. DISPOSAL

Dispose of material in accordance with all local, state, and federal regulations.

14. TRANSPORTATION INFORMATION

UN Proper Shipping Name: Not restricted

UN Label: None

UN Identification Number: None

Hazardous Ingredients: None

Placards: None

Reportable Quantity: None

15. REGULATORY INFORMATION

TSCA Listed Yes

SARA Title III Section 302 No

SARA Title III Section 311/312 No

SARA Title III Section 313 No

Canada DSL

16. OTHER INFORMATION

Abbreviations:

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

BOD: Biological Oxygen Demand

MSDS Date: 07/2008

Disclaimer: All information and recommendations concerning product is based on tests and data believed to be reliable; however it is the user's responsibility to determine the safety, toxicity and suitability for the user's own use of the product described herein. Since the actual use by others is beyond our control, no guarantee expressed or implied is made by Bulldog Chemicals, Inc. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular conditions exist or because of applicable laws or government regulations.