

Liquid & Powder Floor Primers

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: BoldStep™ Floor Primer - Powder Concentrate
Recommended uses: Bonding Agent
Restrictions on uses: None identified
Supplier: BoldStep, Empire, NV
Company Telephone/Fax: (800) 818-4864
Emergency Telephone: (800) 424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (GHS):

Class: Combustible Dust
Category: None
Route of Exposure: N/A

Label Elements:

Signal Word: Warning
H-Code: None
Hazard Statements: May form combustible dust concentrations in the air

Reportable ingredients for labeling:

Vinyl acetate/vinyl alcohol copolymer
Vinyl acetate/ethane copolymer
Kaolin
Calcium carbonate

Other hazards: Risk of dust explosion

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization (preparation)

Copolymer of: Vinyl Acetate + Ethylene (dispersion in water)

Information on Ingredients:

| CAS# | COMPONENTS | LOWER | CONTENT [WT.-%] UPPER |
|-----------|-------------------|-------|-----------------------|
| 1332-58-7 | Kaolin | 3.0 | 7.0 |
| 1317-65-3 | Calcium Carbonate | 7.0 | 13.0 |

This material does not contain any OSHA or WHMIS reportable hazardous ingredients. Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens/Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for the California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

4. FIRST AID MEASURES

| | |
|-----------------------------|---|
| General information: | In case of sickness, seek medical advice (show label or SDS if possible). |
| Inhalation: | Remove to fresh air. Keep the victim lying down and restful. |
| Skin Contact: | Wash skin with soap and water. Get medical attention if symptoms occur. |
| Eye Contact: | Immediately flush eyes with large quantities of clean water. Get medical attention if irritation occurs. |
| Ingestion: | Give the victim several glasses of water. If swallowed, induce vomiting. Get medical attention if symptoms occur. Show label or SDS if possible |

5. FIRE FIGHTING MEASURES

Flammable properties:

| <u>Property</u> | <u>Value</u> |
|-----------------------------|----------------------|
| Flash Point | Not Applicable |
| Boiling Point/boiling range | Not Applicable |
| Lower Explosion Limit (LEL) | 125 g/m ³ |

Fire and explosion hazards: Dust may form explosive mixture with air. Electrostatic charging is possible.

Suitable extinguishing media: Use water spray, water mist, carbon dioxide, foam or dry chemical to extinguish fire.

Unsuitable extinguishing media: Sharp water jet.

Fire-fighting equipment/instructions: Wear self-contained breathing apparatus (SCBA) and full firefighting protective clothing.

Specific exposure hazards arising from the substance or preparation itself, combustion products, resulting gasses: At low oxygen level: Acetic Acid

6. ACCIDENTAL RELEASE MEASURES

Precautions: Avoid dust formation. Do not breathe dust.

HAZWOPER PPE Level: D

Containment: Cover any spilled material in accordance with regulations to prevent dispersal by wind. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

Methods for cleaning up: Mechanically take up and dispose of according to local/state/federal regulations.

Further information: Eliminate all sources of ignition. Observe notes under Section 7.

7. HANDLING AND STORAGE (continued)

Handling Information

Precautions for Safe Handling:

| | |
|---|--|
| Precautions for Safe Handling: | Avoid dust formation. Increased risk of slipping if substance comes into contact with water. |
| Precautions against fire and explosion: | Avoid formation of dust; dust may form explosive mixture with air. Avoid dust deposit, remove dust regularly. Take precautionary measures against electrostatic charging. Keep away from open flames, heat and sparks. |

Storage Information

| | |
|---|--|
| Conditions for storage rooms and vessels: | Observe precautionary measures against dust explosion. |
| Advice for storage of incompatible materials: | Not applicable. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

| | |
|----------------|--|
| Ventilation: | Use with adequate ventilation. |
| Local exhaust: | Yes (to maintain concentration below TLV). |

Maximum airborne concentrations at the work place

| ACUTE O | MATERIAL | TYPE | MG/M ³ | DUST FRACTION |
|-----------|---|-----------|-------------------|----------------------|
| 1332-58-7 | Kaolin* | OSHA PEL | 15.0 | Inhalable dust/mist |
| | | OSHA PEL | 5.0 | Respirable dust/mist |
| | | ACGIH TWA | 2.0 | Respirable dust/mist |
| 1317-65-3 | Calcium Carbonate | OSHA PEL | 15.0 | Inhalable dust/mist |
| | | OSHA PEL | 5.0 | Respirable dust/mist |
| | Particulates not otherwise Classified** | OSHA PEL | 15.0 | Inhalable dust/mist |
| | | OSHA PEL | 5.0 | Respirable dust/mist |
| | | ACGIH TWA | 10.0 | Inhalable dust/mist |
| | | ACGIH TWA | 3.0 | Respirable dust/mist |

* The value is for particulate matter containing no asbestos and < 1% Crystalline Silica (ACGIH).

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Personal Protection Equipment

| | |
|-------------------------|--|
| Eye protection: | Tight fitting chemical safety goggles. |
| Respiratory protection: | In case of dust formation, use a NIOSH approved respirator for fine dust. |
| Hands: | Rubber gloves. |
| Protective clothing: | Recommended in case of dust formation: antistatic clothing and shoes. |
| Other Information: | Avoid breathing dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Wash thoroughly after handling. |

9. REGULATORY INFORMATION

Chemical Characterization (preparation)

| | |
|---|--|
| Physical state: | Powder |
| Form: | Solid |
| Color: | White to light beige |
| Odor: | Odorless |
| pH value: | 7 – 8 at 68° F (20° C) (500 g/L H ₂ O) |
| Melting point: | Not Applicable |
| Boiling temperature / boiling range: | Not Applicable |
| Flash point: | Not Applicable |
| Explosive limit - lower %: | 125 g/m ³ |
| Vapor pressure: | Not Applicable |
| Bulk density: | 400 – 550 kg/m ³ |
| Water solubility/Miscibility: | Moderately soluble at 68° F (20° C) |
| Viscosity (Dynamic): | Not Applicable |
| Other information: | Product forms dispersions with water. The tests on the raised dust were determined in accordance with German VDI 2263, Sheet 1, on the screened product. |
| Thermal Decomposition: | > 482° F (> 250° C) |
| Median Particle Size: | 87 µm (original) |
| Median Particle Size: | 31.6 µm (screened according to German VDI) |
| <i>Disturbed Dust</i> | |
| Dust explosion class: | 1 |
| Kst value: | 6.5 – 8 m*bar/sec |
| Maximum explosion pressure: | 101 – 129 bar |
| Ignition temperature: | 842° F (450° C) (VDI 2263) |
| Minimum Ignition Energy: | 300 – 1,000 mJ without inductance (DIN EN 13821 (sieved < 63 µm)) |
| <i>Deposited Dust</i> | |
| Glow Temperature: | > 752° F (> 400° C) (DIN VDE 0165; sieved < 200 µm) |

10. STABILITY AND REACTIVITY

| | |
|--------------------------------------|--|
| Stability: | If stored and handled in accordance with standard industrial practices, no hazardous reactions are known. No incompatibilities have been identified. |
| Hazardous Decomposition Products: | If stored and handled properly, none are known. At increased temperature: Acetic Acid. |
| Hazardous Polymerization: | Hazardous polymerization will not occur. |

11. TOXICOLOGICAL INFORMATION

Information on

Toxicological Effects: Toxicological testing has been conducted with similar product(s).

| ACUTE ORAL TOXICITY | | | |
|---------------------|---------------------|---------------------|--------------------------------|
| Route of Exposure | Result/Effect | Species/Test System | Source |
| Oral | LD50: > 2,000 mg/kg | Rat | Conclusion by analogy OECD 423 |

Based on the available data, acute toxic effects are not expected after

| ACUTE SKIN TOXICITY | | | |
|---------------------|----------------|---------------------|--------------------------------|
| | Result/Effect | Species/Test System | Source |
| | not irritating | Rabbit | Conclusion by analogy OECD 404 |

Based on the available data, a clinically relevant skin irritation hazard is not expected. No information is available.

| RESPIRATORY OR SKIN SENSITIZATION | | | |
|-----------------------------------|-----------------|--------------------------------------|--------------------------------|
| Route of Exposure | Result/Effect | Species/Test System | Source |
| Dermal | Not sensitizing | Mouse; LLNA (Local lymph Node assay) | Conclusion by analogy OECD 429 |

Based on the available data, a sensitization reaction is not expected.

| GERM CELL MUTATION | | | |
|--------------------|---------------|--|--------------------------------|
| | Result/Effect | Species/Test System | Source |
| | Negative | Mutation assay (in vitro) Bacterial Cells | Conclusion by analogy OECD 471 |

Based on known data, a significant mutagenic potential may be excluded.

Carcinogenicity:

For this endpoint, no toxicological test data is available for the whole product.

Reproductive toxicity:

For this endpoint, no toxicological test data is available for the whole product.

**Specific target organ toxicity
(repeated exposure):**

For this endpoint, no toxicological test data is available for the whole product.

Aspiration hazard:

Based on the physical-chemical properties of the product, no aspiration hazard must be expected.

**Further toxicological
information:**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by 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 OSHA.

Other information:

No information on damage to health during manufacture and use.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No expected damaging effects to aquatic organisms. According to current knowledge, adverse effects on water purification plants are not expected.

Product details:

| RESULT / EFFECT | SPECIES/TEST SYSTEM | SOURCE |
|-------------------|---------------------|--------------------------------|
| LC50: > 100 mg/L | Carp | Conclusion by analogy OECD 203 |
| EC10: > 1000 mg/L | Sludge (0.5 h) | Conclusion by analogy |

Persistence and degradability: Polymer component: Not readily biodegradable. Elimination by adsorption to activated sludge. Separation by flocculation is possible.

Bioaccumulative potential: No adverse effects expected.

Mobility in soil: No adverse effects expected.

Other adverse effects: None known

Additional information: According to present knowledge no adverse influence to environment expected.

13. DISPOSAL CONSIDERATIONS

Waste disposal method: Observe local/state/federal regulations.

Packaging disposal: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or reused. Observe local/state federal regulations.

Recommended cleaning agent: Water

14. TRANSPORTATION INFORMATION

US DOT & CANADA TDG SURFACE

Valuation Not regulated for transport.

Transport by sea IMDG - Code

Valuation Not regulated for transport.

AIR transport ICAO - TI/IATA - DGR

Valuation Not regulated for transport.

15. REGULATORY INFORMATION

US Federal Regulations

**TSCA inventory status
and TSCA information:**

This material or its components are listed on and/or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

15. REGULATORY INFORMATION (continued)**TSCA Section 12(b)**

- Export Notification: This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals: This material does not contain any CERCLA regulated chemicals.

SARA 302 - EHS Chemicals: This material does not contain any SARA extremely hazardous substances.

SARA 313 Chemical: This material does not contain any SARA 313 chemicals above minimum levels.

HAPS (Hazardous Air Pollutants)

| CAS# | CHEMICAL | UPPER LIMIT WT. % |
|----------|---------------|-------------------|
| 108-05-4 | Vinyl Acetate | < 0.02 |
| 5-07-0 | Acetaldehyde | < 0.002 |
| 141-78-6 | Ethyl Acetate | < 0.004 |
| 67-56-1 | Methanol | < 0.0016 |
| 50-00-0 | Formaldehyde | < 0.008 |

U.S. State Regulations**California Proposition 65 Carcinogens**

75-07-0 Acetaldehyde
14808-60-7 Quartz
50-00-0 Formaldehyde

California Proposition 65 Reproductive Toxins

67-56-1 Methanol

Massachusetts Substance List

1332-58-7 Kaolin
1317-65-3 Calcium Carbonate

New Jersey Right-To-Know Hazardous Substance List

1317-65-3 Calcium Carbonate

Pennsylvania Right-To-Know Hazardous Substance List

1332-58-7 Kaolin
1317-65-3 Calcium Carbonate

Canadian Regulations

This product has been classified in accordance with the Hazard Criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS Hazard Classes: None

DSL Status: This material or its components are listed on the Canadian Domestic Substances List. This material is in compliance under the 2% Polymer Rule.

Canadian Ingredient

Disclosure List: This material contains no listed components.

15. REGULATORY INFORMATION (continued)**Details of international registration status**

Relevant information about individual substance inventories, where available, is given below.

| | |
|----------------------------------|---|
| South Korea (Republic of Korea): | ECL (Existing Chemicals List) This product is listed in, or complies with, the substance inventory. |
| Japan: | ENCS (Handbook of Existing and New Chemical Substances) This product is listed in, or complies with, the substance inventory. |
| Australia: | AICS (Australian Inventory of Chemical Substances) This product is listed in, or complies with, the substance inventory. |
| People's Republic of China: | IECSC (Inventory of Existing Chemical Substances in China) This product is listed in, or complies with, the substance inventory. |
| Canada: | DSL (Domestic Substance List) This product is listed in, or complies with, the substance inventory. |
| Philippines: | PICCS (Philippine Inventory of Chemicals and Chemical Substances) This product is listed in, or complies with, the substance inventory. |
| United States of America (USA): | TSCA (Toxic Substance Control Act Chemical Substance Inventory) This product is listed in, or complies with, the substance inventory. |
| European Economic Area (EEA): | REACH (Regulation (EC) No 1907/2006) This product is listed in, or complies with, the substance inventory. |

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

| | |
|-----------------------|--|
| Product List: | BoldStep Floor Primer - Powder Concentrate |
| Issue Date: | 09 / 2025 |
| Version #: | 01 |
| Revision Date: | 09 / 2025 |
| Prepared by: | BoldStep |
| HMIS® ratings: | |
| Health: | 1 - Slight Hazard |
| Flammability: | 1 - Slight Hazard |
| Reactivity: | 0 - Minimal Hazard |

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic

Glossary of Terms

| | |
|--------|---|
| ACGIH: | American Conference of Governmental Industrial Hygienists |
| DOT: | Department of Transportation |
| hPa: | Hectopascals |
| mPa*s: | Milli Pascal-Seconds |
| OSHA: | Occupational Safety and Health Administration |
| PEL: | Permissible Exposure Limit |

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION (continued)

| | |
|--------|--|
| Ppm: | Parts per Million |
| SARA: | Superfund Amendments and Reauthorization Act |
| STEL: | Short Term Exposure Limit |
| TSCA: | Toxic Substances Control Act |
| TWA: | Time Weighted Average |
| WHMIS: | Canadian Workplace Hazardous Materials Identification System |

| Flash point determination methods | Common name |
|-----------------------------------|-------------------------------|
| ASTM D56 | Tagliabue (Tag) closed cup |
| ASTM D92, DIN 51376, ISO 2592 | Cleveland open cup |
| ASTM D93, DIN 51758, ISO 2719 | Pensky-Martens closed cup |
| ASTM D3278, DIN 55680, ISO 3679 | Setaflash or Rapid closed cup |
| DIN 51755 | Abel-Pensky closed cup |

Conversion table:

| | |
|------------|---|
| Pressure: | 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa |
| Viscosity: | 1 mPa*s = 1 centipoise (cP) |

DISCLAIMER

This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handled or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractors and customers who will use the product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure of what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.

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