

**Safety Data Sheet**  
**Spruce Pine Batch - Glass Batch.**

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**1. Identification of the Preparation and of The Company**

Product Name and/or code: GLASS BATCH  
Effective Date: 19-May-17  
Manufacturer: Spruce Pine Batch Co.  
2490 US HWY 19E  
Spruce Pine, NC 28777  
Information Contact: Tom Littleton (President)  
Emergency Contact: (828) 467-9443  
Product Use: Glass - All variations

**2. Hazards Identification**

**Emergency Overview**

**WARNING! HARMFUL IF INHALED. MAY CAUSE EYE AND SKIN IRRITATION. INHALATION CANCER HAZARD.**

**Classification of the Product:**

**Label Elements**

**Pictograms**

Conforms to ASTM D-4236



GHS08

GHS04



GHS09

GHS03

**Signal Word**

**WARNING!**

**Hazard Statement**

Over exposure may cause lung and kidney damage. Contains ingredients which can cause cancer. (Risk of cancer depends on duration and level of exposure). May be corrosive and abrasive to eyes. May cause eye irritation, redness and pain. May cause burns and blistering to the skin. May cause skin irritation upon contact especially when skin is wet. May be abrasive to skin. May lead to dermatitis. Causes respiratory tract irritation. Dust may be abrasive and corrosive.

**Precaution Statement:**

Use only with adequate ventilation. Do not breathe in dust. Do not create dust. Do not ingest. Close container after each use. Ensure fresh air entry during use, wear NIOSH approved respirator device. Follow respirator manufacture's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Wash clothing after working with the product.

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**First Aid Statement**

If you experience difficulty in breathing, leave the area to obtain fresh air. If difficulty persists, get medical attention immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes, and get medical attention immediately. For skin, wash thoroughly with soap and water, and get medical attention immediately if skin reaction occurs. If swallowed, do not induce vomiting, get medical attention immediately. Never give anything by mouth to a unconscious person.

**Children's Statement**

KEEP OUT OF THE REACH OF CHILDREN.

**NFPA**

Health: 3

Flammability: 1

Reactivity : 0

**HMIS**

Health : 2

Flammability: 1

Physical Hazard: 0

**Regulation (EC) No. 1272/2008**

STOT -RE 1 (H372); STOTE-RE 2 (H373); Carcinogen 1A (H350); Eye irritant 2 (H319), Eye damage 1 (H318); Skin irritant 2 (H315); Acute Toxicity 4 (H332); Acute Toxicity 2 (H302); STOT -SE 3 (H335); Skin Sensitizer1 (H317); Aquatic chronic 1 (H410); Oxidizer 3 (H272); Reproductive 1B (H360); STOTE -SE 1 (H370).

Directive 67/548/EEC & Directive 1999/45/EC [Soda ash: Xi; R36; S2, S22, S26]; [Barium Carbonate: Xn; R36; S2, S22/25]; [Boric acid: T; R60, R61; S53, S45]; [Cryolite: Xn; R20, T; R48/23/25, N; R51/53; S1/2, S22, S37, S45, S61]; [Zinc Oxide: N; R50/53; S60, S61]; [(Di) antimony trioxide: Xn; R40; S2, S22, S36/37]

**3. Composition/Information on Ingredients:**

**Substances - All variations used.**

**Mixture of the following chemicals**

Silica (CAS No. 14808-60-7) <60%  
Soda Ash (CAS No. 497-19-8) <25%  
Ground Limestone CAS No. 1317-65-3 <20%  
Dolomite CAS No. 16389-88-1 <15%  
Potassium Carbonate CAS No. 7584-08-7 <15%  
Feldspar CAS No. 68476-25-5 <15%  
Sodium Sulphate CAS No. 7757-82-6 <15%  
Sodium Nitrate CAS No. 7631-99-4 <10%  
Fluorspar CAS No. 7789-75-5 <10%  
Borax CAS No. 17179-04-3 <10%  
Potassium Nitrate CAS No. 7757-79-1 <10%  
Barium Carbonate CAS No. 513-77-9 <10%

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Boric Acid CAS No. 10043-35-3 <10%  
 Cryolite CAS No. 15096-52-3 <5%  
 Lithium Carbonate CAS No. 554-13-2 <5%  
 Zinc Oxide CAS No. 1314-13-2 <5%  
 (Di)antimony trioxide CAS No. 1309-64-4 <1%

### *Risk and Safety Phrases:*

Ingredients are marked according to CLP Regulation (CLP-Regulation (EC) No 1272/2008) and according to DSD (Dangerous Substances Directive (67/548/EEC)) and DPD (Dangerous Preparations Directive (1999/45/EC)) and no workplace-related occupational exposure limits are specified for any of the listed ingredients. These ingredients are regarded as trade secrets.

### 4. First Aid Measures

Inhalation	If you experience difficulty in breathing, leave the area to obtain fresh air. If difficulty persists, get medical attention immediately.
Skin Contact	Wash the affected area thoroughly with plenty of soap and water, and get medical attention immediately if skin reaction occurs.
Eye Contact	In case of eye contact, flush immediately with plenty of water for at least 15 minutes, and get medical attention immediately. If irritation occurs, contact a physician.
Ingestion	Drink water or milk to dilute. If swallowed, do not induce vomiting, get medical attention immediately. Never give anything by mouth to a unconscious person.

### 5. Firefighting Measures

Extinguishing Media	Water, foam, carbon dioxide or dry chemical equipment.
Fire/Explosion Hazards	This product is not known to present any fire hazard.
Flashpoint/Flammability	Not considered to a fire hazard.

### 6. Accidental Release Measures

Environmental precautions	None determined for this product.
Methods and Materials for Containment and Cleaning up	Contain spill. Recover as much as possible. Absorb remainder with an inert material. Place into closed container and store in a safe location to await disposal. Wash the spill area with soap and water.

### 7. Handling and Storage

Safe Handling	Use under ventilated conditions. Avoid eye and skin contact. For personal protection, we recommend that employees wash thoroughly after handling product. Always wash before eating, smoking or using toilet facilities. Keep container closed when not in use. Keep container upright to prevent leakage.
Storage	Store between 50-100 deg. F., ideally 70 deg. F.

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### 8. Exposure Controls/Personal Protection

#### Personal Protective Equipment

Wear goggles where spills or splashing may occur. Wear water resistant impervious gloves if handling bulk amounts.

#### Exposure Limits

Substance	CAS #	OSHA PEL		NIOSH REL	ACGIH TLV
		mg/m3	8 hr TWA (ST) STEL (C) Ceiling	Up to 10-hr TWA (ST) STEL (C) Ceiling	8 hr TWA (ST) STEL (C) Ceiling
Silica	14808-60-7	(10 mg/m3)/( %SiO2+2)	0.05 mg/m3	Ca 0.05 mg/m3	0.025 mg/m3 (resp.)
Soda Ash	497-19-8	Not Established			
Ground Limestone	1317-65-3	15 (Total dust)	10 mg/m3 (Total dust)	10 mg/m3 (Total dust)	N/A
		5 (Respirable fraction)	5 mg/m3 (Respirable fraction)	5 mg/m3 (Respirable fraction)	N/A
Dolomite	16389-88-1	Not Established			
Potassium Carbonate	(7584-08-7)	Not Established			
Feldspar	68476-25-5	5 (Respirable fraction)	Not Established		
Sodium Sulphate	7757-82-6	Not Established			
Sodium Nitrate	7631-99-4	Not Established			
Fluorspar	7789-75-5	2.5	2.5 mg/m3	2.5 mg/m3	2.5 mg/m3
Borax	12179-04-3	5 (Respirable fraction)	Not Established		
Potassium Nitrate	7757-79-1	Not Established			
Barium Carbonate	513-77-9	Not Established			
Boric Acid	10043-35-3	Not Established			
Cryolite	15096-52-3	Not Established			
Lithium Carbonate	554-13-2	Not Established			
Zinc Oxide	1314-13-2	15 (Total dust)	10 mg/m3 (Total dust)	5 mg/m3 (Total dust)	N/A
		5 (Respirable fraction)	5 mg/m3 (Respirable fraction)	N/A	2 mg/m3; (ST) 10 mg/m3
(Di)antimony trioxide	1309-64-4	Not Established			

#### Respiratory and Ventilation

Wear approved NIOSH/MSHA respirator if exposure to mist or vapor exceed applicable PEL/TLV limits. Use in accordance with manufacturer's use limitations and OSHA STANDARD 1910-34. Local ventilation may be used to prevent routine inhalation.

#### Skin Protection

Wear water resistant impervious gloves if handling bulk amounts.

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Eye Protection	Wear goggles where spills or splashing may occur.
<b>9. Physical and Chemical Properties</b>	
Appearance	Agglomerated; granules, powder.
Physical State	Powder.
Color	Various
Odor	Odorless
Boiling Point	Not determined.
Freezing Point	Not determined.
State (pH)	Not determined.
Specific Gravity	Not determined.
Viscosity	Not determined.
Flashpoint	Not determined.
Vapor Pressure	Not determined.
Vapor Density	<1
Solubility in water	Partially soluble.
<b>10. Stability and Reactivity</b>	
Reactivity	No dangerous reaction known under conditions of normal use.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	None
Incompatible materials	None
Hazardous Decomposition Products	No dangerous decomposition products known. Decomposition products depend on conditions.
<b>11. Toxicological Information</b>	
Health Effects	Studies have not been performed on this particular mixture. The information below is based on data on the individual ingredients.
<p>The major concern is silicosis, caused by the inhalation and retention of <u>respirable crystalline silica dust</u>. Silicosis may be progressive and exist in several forms, chronic, accelerated or acute. It may lead to disability and death. Crystalline Silica inhaled from occupational sources is classified as carcinogenic to human but risk of cancer depends on duration and level of exposure. Overexposure may cause kidney disease. There is evidence that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of several autoimmune disorders. Individual with silicosis are at increased risk to develop pulmonary tuberculosis if exposed to person with tuberculosis.</p>	

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**Oral**

*Silica (Quartz): LD50, rat > 22,500 mg/kg*  
*Soda Ash: LD50, rat > 2,800 mg/kg*  
*Ground Limestone: LD50, rat > 6,450 mg/kg*  
*Dolomite: No Data Available*  
*Potassium Carbonate: LD50, rat >1,870 mg/kg*  
*Feldspar: No Data Available*  
*Sodium Sulphate: No Data Available*  
*Sodium Nitrate: LD50, rat > 2,000mg/kg*  
*Fluorspar: LD50, rat > 4,250mg/kg*  
*Borax: LD50, rat > 3,200 to 3,500 mg/kg*  
*Potassium Nitrate: LC50, rat >2,000 mg/kg BW*  
*Barium Carbonate: LD50, rat > 379 mg/kg*  
*Boric Acid: LD50, rat > 3,500 to 4,100 mg/kg*  
*Cryolite: No Data Available*  
*Lithium Carbonate: LD50, rat > 525 mg/kg BW*  
*Zinc Oxide: No Data Available*  
*(Di) Antimony trioxide: LD50, rat >20,000 mg/kg*

**Dermal**

*Silica (Quartz): No Data Available*  
*Soda Ash: LD50, rabbit >2,000 mg/kg*  
*Ground Limestone: No Data Available*  
*Dolomite: Not Data Available*  
*Potassium Carbonate: LD50, rabbit > 2,000 mg/kg*  
*Feldspar: No Data Available*  
*Sodium Sulphate: No Data Available*  
*Sodium Nitrate: LD50, rat > 5,000mg/kg*  
*Fluorspar: LD50, rabbit > 500mg - 24 hrs.*  
*Borax: LD50, rabbit > 2, 000 mg/kg*  
*Potassium Nitrate: LD50, rat >5,000mg/kg BW*  
*Barium Carbonate: No Data Available*  
*Boric Acid: LD50, rabbits >2,000mg/kg*  
*Cryolite: No Data Available*  
*Lithium Carbonate: LD50, rat > 2,000 mg/kg BW*  
*Zinc Oxide: No Data Available*  
*(Di) Antimony trioxide: LD50, rabbit > 8,300 mg/kg*

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Inhalation	<i>Silica (Quartz): No Data Available</i> <i>Soda Ash: LD50, rat &gt;2.30 mg/l, 2 hr. exposure time</i> <i>Ground Limestone: No Data Available</i> <i>Dolomite: No Data Available</i> <i>Potassium Carbonate: No Data Available</i> <i>Feldspar: No Data Available</i> <i>Sodium Sulphate: No Data Available</i> <i>Sodium Nitrate: LC50, rat &gt;0.527mg/L (4-h)</i> <i>Fluorspar: No Data Available</i> <i>Borax: LC50, rat &gt; 2.0 mg/L</i> <i>Potassium Nitrate: LC50, rat &gt; 0.527 mg/L (4-h)</i> <i>Barium Carbonate: No Data Available</i> <i>Boric Acid: LD50, rat &gt; 2.0 mg/L</i> <i>Cryolite: No Data Available</i> <i>Lithium Carbonate: LD50, rat &gt; 2,000 mg/m3 (4-h)</i> <i>Zinc Oxide: No Data Available</i> <i>(Di) Antimony trioxide: LD50, rat &gt; 5,200 mg/m3</i>
Inhalation Effects	Inhalation of respirable dust in the route of exposure. Over exposure may cause lung and kidney damage. Contains ingredients which can cause cancer. (Risk of cancer depends on duration and level of exposure). Cause respiratory tract irritation.
Eye Effects	May be corrosive to the eyes. May cause eye irritation, redness and pain. May be abrasive.
Skin Effects	May be irritating to the skin. May be abrasive. May lead to dermatitis. May cause burns and blistering to the skin. May cause skin irritation upon contact especially when skin is wet. May be abrasive.
Sensitization	Dust may be abrasive and corrosive.
<b><u>Additional toxicological information:</u></b>	<i>When used and handled according to specifications, the product does not have any harmful effects according to past experience and the information provided by manufacturer.</i>



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**12. Ecological Information**

**Toxicity**

Silica (Quartz): Is not known to be Eco toxic.

Soda Ash: LC50, fishes > 300 mg/l 96hr - fresh water,  
 EC50, Invertebrate 200-227 mg/l 48 hr. - freshwater,  
 EC50, algae 242 mg/l 5 days.

Ground Limestone: Not expected to be hazardous to the environment.

Dolomite: No Data Available

Potassium Carbonate: May increase pH of waterways and adversely affect aquatic life.  
 LC50, Bluegill sunfish: 230 mg/l 96hr,  
 LC50, Rainbow trout: 68mg/l 96hr,  
 LC50, Fathead minnow 940 mg/l 940 mg/l 246hr,  
 LC50, Ceriodaphnia (water flea): 630 mg/l, 24 & 48 hr.

Feldspar: No Data Available

Sodium Sulphate: No Data Available

Sodium Nitrate: LC50, fishes > 6000 mg/l 96hr - freshwater,  
 LC50, Fishes 4400 mg/l 96 hr. - marine water,  
 EC50, Water flea 8600 mg/l 24hr,  
 EC50, Algae (several species) >1700 mg/l 10 days.

Fluorspar: Toxic to aquatic life. May cause long term harmful effects in aquatic environment.

Borax: LC50, Fishes 79.7 mg B/L 96 hr.,  
 LC50, Daphnia 760 mg B/L 48 hr.,  
 EC50, Algae > 40 mg B/L 72 hr.

Potassium Nitrate: LC50, Fishes 1378 mg/L 96 hr. -freshwater,  
 EC50, Daphnia 490 mg/L 48 hr.,  
 EC50, Algae > 1700 mg/L 10 days.

Barium Carbonate: Mosquito Fish 10,000 mg/l 96 hr. at 20°C

Boric Acid: LC50, Fishes 79.7 mg B/L 96 hr.,  
 LC50, Daphnia 133 mg B/L 48 hr.,  
 EC50, Algae > 40 mg B/L 72 hr.

Cryolite: No Data Available

Lithium Carbonate: LC50, Rainbow trout: 30.3 mg/L 96hr,  
 EC50, Water flea 33.2 mg/L 48 hr.,

Zinc Oxide: LC50, Fishes 320 PPM 96 hr.,  
 LC50, Daphnia 98 µg/L 48 hr.,  
 EC50, Algae 0.042 mg/L 72 hr.

(Di) Antimony trioxide: LC50, freshwater fishes 14.4 mg Sb/l 96hr,  
 Invertebrate LC50, 1.77 mg Sb/l 96 hr.,  
 EC50, algae >36.6 mg Sb/l 72 hr.



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Aquatic toxicity	No information available. Studies have not been performed on this particular mixture.
Persistence and degradability	No information available. Studies have not been performed on this particular mixture.
Bio accumulative potential	this particular mixture.
Mobility in soil	this particular mixture.
Additional ecological information	No information available. Studies have not been performed on this particular mixture.

<b>13. Disposal Considerations</b>
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Dispose of all waste material in accordance with all applicable federal, state and local regulations for the disposal of aqueous polymer wastes.

<b>14. Transport Information</b>
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DOT Non-Bulk	This regulation does not apply to the non-bulk material.
Shipping Name	Not applicable to this mixture.
Technical Shipping Name	Not applicable to this mixture.
Hazard Class	Not applicable to this mixture.
UN Number	Not applicable to this mixture.
Packing Group	Not applicable to this mixture.
<b>IMDG</b>	This regulation does not apply to the non-bulk material.
Shipping Name	Not applicable to this mixture.
Technical Shipping Name	Not applicable to this mixture.
Hazard Class	Not applicable to this mixture.
UN Number	Not applicable to this mixture.
Packing Group	Not applicable to this mixture.
EmS Number	Not applicable to this mixture.
Marine Pollutant	Not applicable to this mixture.
<b>ICAO/IATA</b>	This regulation does not apply to the non-bulk material.
Shipping Name	Not applicable to this mixture.
Technical Shipping Name	Not applicable to this mixture.
Hazard Class	Not applicable to this mixture.
UN Number	Not applicable to this mixture.
Packing Group	Not applicable to this mixture.
Marine Pollutant	Not applicable to this mixture.

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the materials.*

<b>15. Regulatory Information</b>
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Safety, health and environmental regulations/legislation specific for the substance or mixture.

SARA	Not applicable to this mixture.
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Section 355 (extremely hazardous substances)	Not applicable to this mixture.
Section 313 (Specific toxic chemical listing)	Not applicable to this mixture.
TSCA (Toxic Substance Control Act)	All ingredients are listed.
Proposition 65	<p><b>⚠ WARNING:</b> Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></p> <p>As of May 19, 2017 this product contains listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.</p> <p>Silica, Lithium carbonate, Lead monoxide, Cadmium Oxide, (di) antimony trioxide.</p>
Carcinogenicity categories	
EPA (Environmental Protection Agency)	Not applicable to this mixture.
TLV (Threshold Limit Value established by ACGIH)	Refer to section 8.
MAK (German Maximum Workplace Concentration)	Not applicable to this mixture.
NIOSH (National Institute for Occupational Safety & Health)	Not applicable to this mixture.
OSHA (Occupational Safety & Health Administration)	Not applicable to this mixture.

### 16. Other Information

Reason for Issue: GHS Format

Prepared by: Rudolph J. Jaeger, Ph.D., DABT, ERT (UK)

Chief Toxicologist and President  
ENVIRONMENTAL MEDICINE, INC.  
263 CENTER AVENUE  
WESTWOOD, NJ 07675

[jaegerr@envmed.com](mailto:jaegerr@envmed.com)  
201-666-7929 x13

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### Abbreviations and acronyms:

#### NFPA (SCALE 0-4) National Fire Protection Association (USA)

Health: 3

Flammability: 1

Reactivity : 0

**Warning:** Corrosive or toxic. Avoid skin contact or inhalation.

Combustible if heated.

**Stable:** Not reactive when mixed with water.

#### HMIS ( SCALE 0-4) Hazardous Materials Identification System (USA)

Health : 2

Flammability: 1

Temporary or minor injury may occur.

Materials that must be preheated before ignition will occur.

Includes liquids, solids, semi solids having a flash point above 200 F. (Class IIIB)

Physical Hazard: 0

Materials that are normally stable, even under fore condition , and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### H Statements

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

#### R-Phrases

R20 - Harmful by inhalation.

R23 - Toxic by inhalation.

R25 - Toxic if swallowed.

R36 - Irritating to eyes.

R40 - Limited evidence of a carcinogenic effect.

R60 - May impair fertility.

R61 - May cause harm to the unborn child.

R48/23/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

H350 - May cause cancer

R50/53: Very toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment.

H360 - May damage fertility or the unborn child

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the environment.

H370 - Causes damage to organs (H370)

#### S-Phrases

H372 - Causes damage to organs through prolonged or repeated exposure

S2: Keep out of the reach of children

H373 - May causes damage to organs through prolonged or repeated exposure

S22: Do not breathe dust

H410 - Very Toxic to aquatic life with long lasting effects

S26: Incase of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37: Wear suitable gloves.

S45: In case of accident or if you feel unwell seek medical advice immediately (show label where possible).

S53: Avoid exposure- Obtain special instructions before use.

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**Exposure Limits**

TWA - Time Weighted Average (8 hr.)

STEL - Short Time Exposure Limit (15 min.)

REL - Recommended Exposure Limit

PEL - Permissible Exposure Limit

IDLH - Immediately Dangerous to Life or  
Health

**S-Phrases**

S60: This material and its container must be disposed as  
hazardous waste.

S61: Avoid release to the environment.

S1/2: Keep locked up and of the reach of children.

S24/25: Avoid contact with eyes and skin.

S36/37: Wear suitable protective clothing and gloves.