



# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: 29CFR1910.1200

**Issue Date** 04-May-2015

**Revision Date** 04-May-2015

**Version** 1

## Product identifier

**Product Name** Extra Brite Non Fiber Aluminum Roof Coating

## Other means of identification

**Product Code** 82200

**Synonyms** None

## Recommended use of the chemical and restrictions on use

**Recommended Use** Reflective roof coating to be used on metal, composition, built-up, and modified bitumen roofs.

**Uses advised against** For exterior use only. Do not use indoors.

## Details of the supplier of the safety data sheet

**Manufacturer Address** FBC Chemical Corp.  
P.O. Box 599  
634 Route 228  
Mars, Pennsylvania 16046  
(724) 625-3116

## Emergency telephone number

**Company Phone Number** 724 625 3116

**Emergency Telephone** Call CHEMTREC Day or Night:  
Within USA and Canada: 1-800 424-9300  
Outside USA and Canada: 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

### Label elements

#### **Emergency Overview**

**Danger**

#### **Hazard statements**

May cause genetic defects  
May cause cancer

Causes damage to organs through prolonged or repeated exposure  
May be fatal if swallowed and enters airways  
Flammable liquid and vapor



**Appearance** Viscous

**Physical state** Liquid

**Odor** Solvent (Mineral Spirits)

#### **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Keep away from heat/sparks/open flames/hot surfaces.  
Keep container tightly closed when product is not in use.  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Other Information**

• Toxic to aquatic life with long lasting effects  
Unknown acute toxicity 26.416777% of the mixture consists of ingredient(s) of unknown toxicity

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Substance**

#### **Mixture**

This product is a mixture.  
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### **Synonyms**

None.

#### **Chemical nature**

Aluminum pigmented, solvent based asphalt roof coating.

Chemical Name	CAS No.	Weight-%	Trade Secret
Mineral Spirits (with < 0.1% Benzene)	8052-41-3	30 - 40%	*
Asphalt (at Ambient Temperature)	8052-42-4	10 - 20%	*
Aluminum Powder	7429-90-5	10 - 20%	*
Mica, ground	12001-26-2	10 - 20%	*
Petroleum Hydrocarbon Resin	68131-87-3	0 - 10%	*
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	0 - 10%	*
Nonane	111-84-2	0 - 10%	*
Trimethyl Benzene (mixed Isomers)	25551-13-7	0 - 10%	*
Silica, quartz	14808-60-7	0 - 10%	*

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	Contains petroleum distillate. Harmful or fatal if swallowed. Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
<b>Eye contact</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Skin contact</b>	Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with breathing is experienced, get medical attention immediately.
<b>Ingestion</b>	Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical attention immediately.
<b>Self-protection of the first aider</b>	First aider: Pay attention to self-protection!.

##### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	May cause skin irritation. May cause eye irritation.
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##### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Sand. Use foam or water FOG as a last resort.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

##### Specific hazards arising from the chemical

No information available.

**Hazardous combustion products** Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

**Explosion data****Sensitivity to Mechanical Impact** Not sensitive.**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

- Personal precautions** No action should be taken involving any personal risk or without suitable training. Use personal protective equipment as required.
- Other Information** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
- For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

- Environmental precautions** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages can not be contained. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

- Methods for containment** Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous earth, vermiculite.
- Methods for cleaning up** Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).
- Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling**

- Advice on safe handling** Use personal protective equipment as required. Remove all sources of ignition. Use only outdoors.

**Conditions for safe storage, including any incompatibilities**

- Storage Conditions** Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition.
- Incompatible materials** Strong acids. Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

- Exposure Guidelines** This product, as supplied, is not believed to contain any hazardous material that exceeds exposure limits established by OSHA. .

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral Spirits (with < 0.1%	TWA: 100 ppm	TWA: 500 ppm	IDLH: 20000 mg/m <sup>3</sup>

Benzene) 8052-41-3		TWA: 2900 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m <sup>3</sup>	Ceiling: 1800 mg/m <sup>3</sup> 15 min TWA: 350 mg/m <sup>3</sup>
Asphalt (at Ambient Temperature) 8052-42-4	TWA: 0.5 mg/m <sup>3</sup> benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m <sup>3</sup> fume 15 min
Aluminum Powder 7429-90-5	TWA: 1 mg/m <sup>3</sup> respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> Al Aluminum	TWA: 5 mg/m <sup>3</sup> Al
Mica, ground 12001-26-2	TWA: 3 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 3 mg/m <sup>3</sup> respirable dust <1% Crystalline silica TWA: 20 mppcf <1% Crystalline silica	IDLH: 1500 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> containing <1% Quartz respirable dust
Nonane 111-84-2	TWA: 200 ppm	(vacated) TWA: 200 ppm (vacated) TWA: 1050 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 1050 mg/m <sup>3</sup>
Trimethyl Benzene (mixed Isomers) 25551-13-7	TWA: 25 ppm	(vacated) TWA: 25 ppm (vacated) TWA: 125 mg/m <sup>3</sup>	-
Silica, quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust : (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

**Appropriate engineering controls****Engineering Controls**

Use natural cross ventilation, local (mechanical) pick-up, and/or general area mechanical cross ventilation. Ventilation pattern should be designed to prevent accumulation of solvent vapors. Ventilation must be sufficient to maintain solvent vapor concentrations below the TWA limits outlined above.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin and body protection**

Wear protective gloves and protective clothing that is resistant to chemical penetration.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations**

Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Solvent (Mineral Spirits)
<b>Appearance</b>	Viscous	<b>Odor threshold</b>	No information available
<b>Color</b>	Aluminum (Silver)		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	N/A	Not applicable	
<b>Melting point/freezing point</b>	No information available		
<b>Boiling point / boiling range</b>	> No information available		
<b>Flash point</b>	> 40.5 °C / > 105 °F	Setaflash	
<b>Evaporation rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limit in Air</b>		No data available.	
<b>Upper flammability limit:</b>	No information available		
<b>Lower flammability limit:</b>	No information available		

## Other Information

## 10. STABILITY AND REACTIVITY

### Chemical stability

### Possibility of Hazardous Reactions

None under normal use.

<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
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### Conditions to avoid

**Avoid static discharge. Avoid heat, sparks, and open flame.**

### Incompatible materials

**Strong acids. Strong oxidizing agents.**

### Hazardous Decomposition Products

Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

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temperature plays an important role in determining the degree of exposure and also the carcinogenic potential of bitumen emissions. This same Monograph states that Asphalt is non volatile at ambient temperature. There is no data presented in the Monograph to demonstrate that Asphalt at ambient temperature is considered a carcinogen. Since the normal use of this product is at ambient temperature, the Asphalt used in this product is not listed as a carcinogen. No other national or international agency has defined Asphalt as a carcinogen.

\* No significant exposure to Crystalline Silica (Quartz) is thought to occur during the use of products in which Crystalline Silica (Quartz) is bound to other materials, such as in paints and coatings. As one reference, see California Office of Health Hazard Assessment at: [http://www.oehha.org/prop65/CRNR\\_notices/safe\\_use/sylicasud2.html](http://www.oehha.org/prop65/CRNR_notices/safe_use/sylicasud2.html)

\* The IARC Monograph (Vol 93, 2010, Carbon Black, Titanium Dioxide, Talc) states: "Operators in user industries who handle fluffy or pelleted Carbon Black during rubber, paint and ink production are expected to have significantly lower exposures to Carbon Black than workers in Carbon Black production. Other workers in user industries who handle it occasionally have little opportunity for exposure. And further..." "End-users of these products (rubber, ink or paint) are unlikely to be exposed to airborne Carbon Black particles, which are bound within the product matrix."

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt (at Ambient Temperature) 8052-42-4	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1	> 5000 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	-
Nonane 111-84-2	-	-	= 3200 ppm ( Rat ) 4 h
Trimethyl Benzene (mixed Isomers) 25551-13-7	= 8970 mg/kg ( Rat )	-	-
Silica, quartz 14808-60-7	= 500 mg/kg ( Rat )	-	-

#### Information on toxicological effects

##### Symptoms

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

##### Skin corrosion/irritation

Can cause skin irritation.

##### Serious eye damage/eye irritation

Irritating to eyes.

##### Irritation

Irritating to eyes, respiratory system and skin.

##### Corrosivity

Not classified.

##### Sensitization

May cause sensitization of susceptible persons.

##### Germ cell mutagenicity

This product does not contain any ingredients that cause germ cell mutagenicity.

##### Carcinogenicity

The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Silica, quartz 14808-60-7	A2	Group 1	Known	X

#### Legend

##### **ACGIH (American Conference of Governmental Industrial Hygienists)**

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen

##### **IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not classifiable as a human carcinogen.

##### **NTP (National Toxicology Program)**

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

##### **OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

Reproductive toxicity	None known.
Developmental Toxicity	None known.
Teratogenicity	None known.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

**Numerical measures of toxicity - No information available**

The following values are calculated based on chapter 3.1 of the GHS document For exterior use only. Do not use indoors.

ATEmix (oral)	15,376.00
ATEmix (dermal)	6,686.00

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

98.79925% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Asphalt (at Ambient Temperature) 8052-42-4	6

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

**Contaminated packaging** Do not reuse container.

Chemical Name	California Hazardous Waste Status
Aluminum Powder 7429-90-5	Ignitable powder

**14. TRANSPORT INFORMATION**

**DOT** DOT Ground: Not regulated if shipped in containers <119 gallons(450 liters)

**TDG** unknown

**ICAO (air)** unknown

**IMDG** unknown

RID unknown

ADR unknown

ADN unknown

## 15. REGULATORY INFORMATION

### International Inventories

**TSCA** All of the components of this product are listed on the US TSCA (Toxic Substances Control Act) Inventory or are exempt.

**DSL/NDSL** All of the components of this product are listed on the DSL.

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Aluminum Powder - 7429-90-5	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Silica, quartz - 14808-60-7	Carcinogen

#### U.S. State Right-to-Know Regulations

This product contains the following substances regulated by various State Right-to-Know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Mineral Spirits (with < 0.1% Benzene) 8052-41-3	X	X	X
Asphalt (at Ambient Temperature)	X	X	X

8052-42-4			
Aluminum Powder 7429-90-5	X	X	X
Mica, ground 12001-26-2	X	X	X
Nonane 111-84-2	X	X	X
Trimethyl Benzene (mixed Isomers) 25551-13-7	X	X	X
Silica, quartz 14808-60-7	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**NFPA** Health hazards 2 Flammability 2 Instability 0 Physical and Chemical Properties -  
**HMIS** Health hazards 2 Flammability 2 Physical hazards 0 Personal protection -  
*Chronic Hazard Star Legend* \* = Chronic Health Hazard

Prepared By FBC Administrative Services Department  
Issue Date 04-May-2015  
Revision Date 04-May-2015  
Revision Note

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**