

**NRNOLD** 

**Other Hazards** Under normal conditions of use and handling in the solid form, harmful substances cannot be released. 2.3. Much of the information provided in this SDS is for situations of use in which hazardous exposures may occur, such as laser cutting or machining.

#### Unknown Acute Toxicity (GHS-US) 4.18 percent of the mixture consists of ingredient(s) of unknown acute toxicity 2.4. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance Not applicable 2 2 Mixture

S.Z. WIXLUIE			
Name	Product Identifier	%	Classification (GHS-US)
Limestone	(CAS No) 1317-65-3	76.4 - 80.4	Not classified
Proprietary chemical	(CAS No) Proprietary	0.56	Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
			Carc. 2, H351
			Repr. 1B, H360
			STOT SE 3, H335
Carbonic acid, calcium salt (1:1)	(CAS No) 471-34-1	<= 0.17	Not classified
Talc	(CAS No) 14807-96-6	<= 0.13	Comb. Dust

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Quartz	(CAS No) 14808-60-7	<= 0.08	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Tetrachloromethane	(CAS No) 56-23-5	0.02	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Carc. 1B, H350 STOT RE 1, H372 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 Ozone 1, H420

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]. Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

**First-aid Measures General**: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area.

**First-aid Measures After Skin Contact**: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. **First-aid Measures After Eye Contact**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting.

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

**Symptoms/Injuries:** Under normal conditions of use not expected to present a significant hazard. During processing or physical alteration, flakes or powder cause irritation of the respiratory tract, eyes, skin, and are harmful. Molten material may release toxic, and irritating fumes. There are potential chronic health effects to consider.

Symptoms/Injuries After Inhalation: For particulates and dust: May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** For particulates and dust: May cause skin irritation. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Eye Contact: For particulates and dust: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** For particulates and dust: May damage fertility or the unborn child. Suspected of causing cancer.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

#### If you feel unwell, seek medical advice (show the label where possible).

#### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Product is not flammable. Under fire conditions, hazardous fumes will be present.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions are not expected to occur under normal conditions.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not allow product to spread into the environment.

6.2. Environmental Precautions Prevent entry to sewers and public waters.

#### 6.3. Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

#### 6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

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#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Products: Fluorine. Magnesium. Acids.

#### 7.3. Specific End Use(s) Flexible insulating material SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Talc (14807-9	96-6)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m <sup>3</sup> (particulate matter containing no asbestos and <1% crystalline	
		silica, respirable fraction)	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen containing no asbestos fibers	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m <sup>3</sup> (containing no Asbestos and <1% Quartz-respirable dust)	
USA IDLH	US IDLH (mg/m³)	1000 mg/m <sup>3</sup> (containing no asbestos and <1% quartz)	
Carbonic acid	l, calcium salt (1:1) (471-34-1)		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m <sup>3</sup> (total dust)	
		5 mg/m <sup>3</sup> (respirable dust)	
Limestone (1	317-65-3)		
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust)	
		5 mg/m <sup>3</sup> (respirable dust)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m <sup>3</sup> (total dust)	
		5 mg/m <sup>3</sup> (respirable fraction)	
Quartz (1480	8-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m <sup>3</sup> (respirable fraction)	
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m <sup>3</sup> (respirable dust)	
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)	
USA OSHA	OSHA PEL (STEL) (mg/m³)	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2	
Tetrachloromethane (56-23-5)			
USA ACGIH	ACGIH TWA (ppm)	5 ppm	
USA ACGIH	ACGIH STEL (ppm)	10 ppm	
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the	
		cutaneous route, Suspected Human Carcinogen	
USA NIOSH	NIOSH REL (STEL) (mg/m³)	12.6 mg/m <sup>3</sup>	
USA NIOSH	NIOSH REL (STEL) (ppm)	2 ppm	
USA IDLH	US IDLH (ppm)	200 ppm	
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm	
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm	
Bis(2-ethylhexyl) phthalate (117-81-7)			
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m <sup>3</sup>	
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m <sup>3</sup>	
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>	
USA IDLH	US IDLH (mg/m <sup>3</sup> )	5000 mg/m <sup>3</sup>	
0.0 5	• · · ·		

#### 8.2. Exposure Controls

**Appropriate Engineering Controls** 

: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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Personal Protective Equipment	<ul> <li>Not generally required. The use of personal protective equipment may be necessary as conditions warrant.</li> </ul>	
Materials for Protective Clothing	: For particulates and dust: Chemically resistant materials and fabrics.	
Hand Protection	: For particulates and dust: Wear chemically resistant protective gloves.	
Eye Protection	: For particulates and dust: Chemical safety goggles.	
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.	

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Solid sheets
Odor	: Odorless
Odor Threshold	: Odorless
рН	: N/A
Evaporation Rate	: N/A
Melting Point	: N/A
Freezing Point	: No Data Available
Boiling Point	: N/A
Flash Point	: N/A
Auto-ignition Temperature	: No Data Available
Decomposition Temperature	: No Data Available
Flammability (solid, gas)	: No
Vapor Pressure	: N/A
Relative Vapor Density at 20 °C	: N/A
Relative Density	: 3.6 (ASTM D-792)
Solubility	: Negligible
Partition Coefficient: N-Octanol/Water	: No Data Available
Viscosity	: N/A
9.2. Other Information No additional information	n available

#### SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** Hazardous reactions are not expected to occur under normal conditions.

**10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

**10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4.** Conditions to Avoid: None known.

**10.5.** Incompatible Materials: Fluorine. Magnesium. Acids.

**10.6.** Hazardous Decomposition Products: Thermal decomposition generates chlorine gas. Thermal decomposition above 825 °C to calcium oxide and carbon dioxide.

#### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

•	
Carbonic acid, calcium salt (1:1) (471-34-1)	
LD50 Oral Rat	6450 mg/kg
Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Tetrachloromethane (56-23-5)	
LD50 Oral Rat	2350 mg/kg
LD50 Dermal Rat	5070 mg/kg
LC50 Inhalation Rat	8000 ppm/4h
Bis(2-ethylhexyl) phthalate (117-81-7)	
LD50 Oral Rat	6860 mg/kg
LD50 Dermal Rabbit	25 g/kg
LC50 Inhalation Rat	> 23.67 mg/l (Exposure time: 1 h)
Skin Corrosion/Irritation: Not classified	

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

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### Germ Cell Mutagenicity: Not classified

Germ Cen Mutagementy. Not classified	
Carcinogenicity: Suspected of causing cancer.	
Talc (14807-96-6)	
IARC group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity, Twelfth Report - Items under consideration.
Quartz (14808-60-7)	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Tetrachloromethane (56-23-5)	
IARC group	2B
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Bis(2-ethylhexyl) phthalate (117-81-7)	
IARC group	2B
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human
	Carcinogen, Twelfth Report - Items under consideration.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: For particulates and dust: May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** For particulates and dust: May cause skin irritation. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Eye Contact: For particulates and dust: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May damage fertility or the unborn child. Suspected of causing cancer.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity	
Ecology - General	: Not classified.
Talc (14807-96-6)	
LC50 Fish 1	> 100 g/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
Tetrachloromethane (56-23-5)	
LC50 Fish 1	36.3 - 47.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	29 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	9.68 - 11.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Bis(2-ethylhexyl) phthalate (117-81-7)	
LC50 Fish 1	> 0.16 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	> 0.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	> 0.200 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	9.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC chronic crustacea	0.158 (Exposure time: 21d - Species: Daphnia magna)

### 12.2. Persistence and Degradability Not established

#### 12.3. Bioaccumulative Potential

Talc (14807-96-6)		
BCF fish 1	(no known bioaccumulation)	
Carbonic acid, calcium salt (1:1) (471-34-1)		
BCF fish 1	(no bioaccumulation)	
Tetrachloromethane (56-23-5)		
BCF fish 1	17.7 - 30	
Log Pow	2.75 (at 23 °C)	
Bis(2-ethylhexyl) phthalate (117-81-7)		
BCF fish 1	1 - 29.7	

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Log Po	w 5.03	
12 /	Mobility in Soil No additional information avai	ilable
12. <del>4</del> . 12 F	Other Adverse Effects	lable
12.5.	Other Adverse Effects	
Other I	Information : Avoid	d release to the environment.
SECTIC	ON 13: DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods	
Waste	Disposal Recommendations: Dispose of waste ma	aterial in accordance with all local, regional, national, and international
regulat	ions.	
SECTIC	ON 14: TRANSPORT INFORMATION	
14.1.	<b>In Accordance with DOT</b> Not regulated for	transport
14.2	In Accordance with IMDG Not regulated for	transport
1/1 2	In Accordance with IATA Not regulated for	transport
SECHIC	IN 15: REGULATORY INFORMATION	
15.1	US Federal Regulations	
Talc (14	4807-96-6)	
Listed o	on the United States TSCA (Toxic Substances Contr	ol Act) inventory
Carbon	nic acid, calcium salt (1:1) (471-34-1)	
Listed o	on the United States TSCA (Toxic Substances Contr	ol Act) inventory
Limest	one (1317-65-3)	
Listed o	on the United States TSCA (Toxic Substances Contr	ol Act) inventory
Quartz	(14808-60-7)	
Listed	on the United States TSCA (Toxic Substances Contr	ol Act) inventory
SARAS	Section 311/312 Hazard Classes	Immediate (acute) health hazard
		Delayed (chronic) health bazard
Totrod	blevemethene (FC 22 F)	
Listod	moromethalle (56-25-5)	al Act \ inventory
Listed	on the United States ISCA (Toxic Substances Contr	of Act) inventory
Listed	Continued States SARA Section 313	0.1.0/
SARA S	Section 313 - Emission Reporting	0.1 %
Zinc co	mpounds (RR-00578-7)	
Listed o	on United States SARA Section 313	
SARA S	Section 313 - Emission Reporting	1.0 %
Bis(2-e	thylhexyl) phthalate (117-81-7)	
Listed o	on the United States TSCA (Toxic Substances Contr	ol Act) inventory
Listed o	on United States SARA Section 313	
EPA TS	CA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule
		under TSCA.
SARA S	Section 313 - Emission Reporting	0.1 %
15.2	US State Regulations	
Quartz	(14808-60-7)	
U.S C	California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
		California to cause cancer.
Tetrac	hloromethane (56-23-5)	
U.S C	California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
		California to cause cancer.
Bis(2-e	thylhexyl) phthalate (117-81-7)	
U.S C	California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
		California to cause cancer.
U.S C	California - Proposition 65 - Developmental	WARNING: This product contains chemicals known to the State of
Toxicit	v	California to cause birth defects.
U.S C	California - Proposition 65 - Reproductive	WARNING: This product contains chemicals known to the State of
Toxicit	y - Male	California to cause (Male) reproductive harm.
Talc (1	<u>.</u> 4807-96-6)	, , ,
	Aassachusetts - Right To Know List	
U.S N	lew Jersey - Right to Know Hazardous Substance Li	st

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U.S Pennsylvania - RTK (Right to Know) List
Limestone (1317-65-3)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
Quartz (14808-60-7)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
Tetrachloromethane (56-23-5)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
U.S Pennsylvania - RTK (Right to Know) List
Zinc compounds (RR-00578-7)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) List
Bis(2-ethylhexyl) phthalate (117-81-7)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
U.S Pennsylvania - RTK (Right to Know) List
SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
<b>Revision Date</b> : 05/07/2015
<b>Other Information</b> : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard
Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:** 

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Ozone 1	Hazardous to the ozone layer Category 1
Repr. 1B	Reproductive toxicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
Comb. Dust	May form combustible dust concentrations in air
H301	Toxic if swallowed
H311	Toxic in contact with skin

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H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
H420	Harms public health and the environment by destroying ozone in the upper atmosphere

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. SDS US (GHS HazCom)