

SAFETY DATA SHEET



Rucoat Equalizer

Revision Date: 1/26/2018

SECTION 1: IDENTIFICATION

<p>(a) PRODUCT IDENTIFIER: Rucoat Equalizer</p>	<p>(b) OTHER MEANS OF IDENTIFICATION: Product Group: Primer/Surfacer Chemical Family: A mixture of calcium carbonate, binders, and other minerals</p>
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(c) **Recommended Use:** Primer/Surfacers are used to prepare finished wallboard or other surfaces to be painted.

Restrictions On Use: Not to be used for anything other than recommended use.

(d) **Manufacturer:**

Southern Wall Products, Inc. • 1825 Fellowship Road • Tucker, Georgia 30084 • 770-621-3065

(e) EMERGENCY PHONE NUMBER: 1-800-554-9255 • M-F 6:30am – 4:00pm Eastern

SECTION 2: HAZARDS IDENTIFICATION

The categories of Health Hazards as defined in OSHA 29 CFR 1910.1200 Hazard Communication Standard have been evaluated and are listed below. Refer to Sections 3, 8, and 11 for additional information.

Hazard Classification	(a) Hazard Category	(b) Hazard Symbols	(b) Signal Word	(b) Hazard Statement	(b) Precautionary Statement
Human Health Hazards					
Acute Toxicity (Oral)	N/D	--	--	--	--
Acute Toxicity (Dermal)	N/D	--	--	--	--
Acute Toxicity (Inhalation)	N/D	--	--	--	--
Skin Corrosion/Irritation	2		Warning	Causes skin irritation	Wear protective gloves P264, P280, P302, P352, P321, P332, P313, P362, P363
Eye Damage/Irritation	2A		Warning	Causes serious eye irritation	Wear eye protection P264, P280, P305, P351, P338, P337, P313
Respiratory Sensitization	N/D	--	--	--	--
Skin Sensitization	N/D	--	--	--	--
Germ Cell Mutagenicity	N/C	-	-	-	-
Carcinogenicity	1		Danger	May cause lung cancer if crystalline silica dusts are inhaled	Do not handle until all safety precautions have been read and understood P201, P202, P280,

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SECTION 2: HAZARDS IDENTIFICATION

The categories of Health Hazards as defined in OSHA 29 CFR 1910.1200 Hazard Communication Standard have been evaluated and are listed below. Refer to Sections 3, 8, and 11 for additional information.

Hazard Classification	(a) Hazard Category	(b) Hazard Symbols	(b) Signal Word	(b) Hazard Statement	(b) Precautionary Statement
Human Health Hazards					
					P308, P313, P405, P501
Reproductive Toxicity	N/D	-	-	-	-
Specific Target Organ Toxicity (STOT) Single-Exposure	3		Warning	May cause respiratory irritation	Avoid breathing dust P261, P271, P304, P340, P312, P403, P233, P405, P501
Specific Target Organ Toxicity (STOT) Repeated or Prolonged Exposure	2		Warning	May cause damage to lungs through prolonged or repeated inhalation	Get medical advice/attention if you feel unwell P260, P314, P501
Aspiration Hazard	N/C	-	-	-	-

Health Hazard Precautionary Statement

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P233	Keep container tightly closed.
P260	Do not breathe dust.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash all body parts in contact with material thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301	If swallowed:
P302	If on skin:
P304	If inhaled:
P305	If in eyes:
P308	If exposed or concerned:
P310	Immediately call a doctor.
P312	Call a poison center or doctor if you feel unwell.
P313	Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment
P332	If skin irritation occurs:
P337	If eye irritation persists.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P340	Remove person to fresh air and keep comfortable for breathing.
P351	Rinse cautiously with water for several minutes.
P352	Wash with plenty of water...

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Health Hazard Precautionary Statement

P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P403	Store in a well-ventilated place.
P405	Store locked up.
P501	Dispose of contents/container to an approved facility.

Hazard Classification	Hazard Category	Hazard Symbols	Signal Word	Hazard Statement	Precautionary Statement
Physical Hazards					
Explosives	N/A	-	-	-	-
Flammable Gases	N/A	-	-	-	-
Flammable Aerosols	N/A	-	-	-	-
Oxidizing Gases	N/A	-	-	-	-
Gases Under Pressure	N/A	-	-	-	-
Flammable Liquids	N/A	-	-	-	-
Flammable Solids	N/A	-	-	-	-
Self-reactive Substances and Mixtures	N/A	-	-	-	-
Substances and mixtures which react with water to emit flammable gases	N/A	-	-	-	-
Oxidizing Liquids	N/A	-	-	-	-
Oxidizing Solids	N/A	-	-	-	-
Organic Peroxides	N/A	-	-	-	-
Corrosive to Metals	N/A	-	-	-	-

Physical Hazard Precautionary Statement

Not applicable

(c) Hazards not otherwise classified: : Rucoat Equalizer is a composite mixture of calcium carbonate, binders, and different minerals, as such, comprehensive toxicity data are unavailable – meaning that there is the potential for other physical/health hazards not previously discussed.

(d) Unknown acute toxicity: None identified.

Medical conditions which are generally recognized as being aggravated by exposure:

Preexisting cardiac and respiratory disease.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS*

(a) Chemical name (b) (Common name and synonyms)	(c) CAS No.	(c) EC No.	(b) % Weight*
Calcium Carbonate (Limestone)	1317-65-3	215-279-6	10-40
Ethylene Vinyl Acetate Polymer	Proprietary	Proprietary	0 - 15
Pyrophyllite	12269-78-2	NA	0-10
Anhydrous Aluminum Silicate (Calcined Kaolin)	92704-41-1	296-473-8	0-10
Titanium Dioxide	13463-67-7	236-675-5	0-10
Attapulgite (palygorskite)	12174-11-7	NA	0-4
Calcium Carbonate (Limestone)	1317-65-3	215-279-6	0-1

Crystalline Silica is a naturally occurring component of some of the minerals above. The weight % of crystalline silica indicated is the total amount of quartz, not the respirable amount.

*The exact percentage (concentration) of composition has been withheld as a trade secret. No additional impurities or stabilizing additives which are themselves classified and which contribute to the classification of the mixture are known to be included in this mixture.

(d) Composition Comments: Raw materials in this product contain respirable crystalline silica as an impurity. The OSHA PEL for respirable crystalline silica has been lowered to 0.05mg/m³, effective June 23, 2016 with compliance dates of September 23, 2017 for the construction industry. Under adequate ventilation conditions the expected use of this product is unlikely to result in exposure to respirable crystalline silica that exceeds the OSHA PEL. Actual exposures to respirable crystalline silica on a given job site must be determined by workplace hygiene testing.

SECTION 4: FIRST AID MEASURES

(a) Description of necessary measures:

INHALATION:	If inhaled: Remove person to fresh air and keep comfortable for breathing. If coughing or breathing difficulty occurs, remove to fresh air immediately. If persistent irritation, severe coughing or other breathing difficulty continues, consult a physician.
INGESTION:	Do not ingest. If irritation occurs consult physician. Do not induce vomiting.
SKIN CONTACT:	If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin or eye irritation occurs or if exposed or concerned: Get medical advice attention. Call a doctor if you feel unwell. If skin rash occurs, discontinue use and consult a physician.
EYE CONTACT:	In case of contact, do not rub or scratch your eyes. If in the eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

(b) Most important symptoms/effects:

- **Acute:** Skin, eye, and mucous membrane irritation
- **Delayed:** Shortness of breath; possible fever. Fatigue; loss of appetite. Chest pain; dry, nonproductive cough.

(c) Indication of immediate medical attention and special treatment: Significant over-exposure

Notes to physician: Treat symptomatically and supportively.

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: FIRE FIGHTING MEASURES

- (a) **Suitable extinguishing media:** Use water or other fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media: N/A
- (b) **Specific hazards arising from the chemical:** None identified
- (c) **Special protective equipment and precautions for fire-fighters:** None
- (d) **Flammability/Explosivity:** Non flammable
- (e) **Hazardous Decomposition Products:** Above 800°C, calcium carbonate (limestone) may decompose to calcium oxide (CaO). When heated to decomposition, toxic fumes including carbon monoxide may be generated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- (a) **Personal precautions, Protective equipment, and Emergency procedures:** Wear proper personal protective equipment as indicated in Section 8. Dusts should be removed using an appropriately equipped vacuum.
- (b) **Methods and materials for containment and cleaning up:** DO NOT USE DRY SWEEPING OR COMPRESSED AIR TO CLEAN SPILLS. Use normal clean up procedures. Floor may be slippery; use care to avoid falling. Scoop or shovel spilled material into an appropriate waste container for disposal. Dispose of materials in accordance with all local, state, and federal regulations. Never discharge large releases directly into sewers or surface waters.

SECTION 7: HANDLING AND STORAGE

- (a) **Precautions for safe handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Minimize dust generation and accumulation utilizing appropriate engineering controls. [In case of inadequate ventilation]Wear respiratory protection. Avoid contact with eyes, skin and clothing. Wear appropriate eye and skin protection (See Section 8). Wash any contacted body parts thoroughly after handling. Do not ingest.
- (b) **Conditions for safe storage, including any incompatibilities:** Store product in its original container at room temperature in a dry, well –ventilated location. Protect from freezing, extreme heat and direct sunlight. Keep container closed when not in use. Good storage conditions will allow up to 12-month shelf life. For best product life: avoid excessive heat, direct sunlight or freezing conditions, which can cause thinning and/or premature aging of product.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Components	(a) OSHA PEL ¹	(a) ACGIH TLV ²	(a) Manufacturer REL ³	(a) IDLH ⁴
Calcium Carbonate (Limestone)	TWA: 15 mg/m ³ (T) TWA: 5 mg/m ³ (R)	TWA: 10 mg/m ³	NA	N/D
Ethylene Vinyl Acetate Polymer	NE	NE	NA	N/D
Pyrophyllite	TWA: 15 mg/m ³ (T) TWA: 5 mg/m ³ (R)	TWA: 10 mg/m ³	NA	N/D
Anhydrous Aluminum Silicate (Calcined Kaolin)	TWA: 15 mg/m ³ (T) TWA: 5 mg/m ³ (R)	TWA: 10 mg/m ³	NA	N/D
Titanium Dioxide	TWA: 15 mg/m ³ (T) TWA: 5 mg/m ³ (R)	TWA: 10 mg/m ³	NA	N/D
Attapulgite (palygorskite)	NE	NE	NA	N/D
Crystalline Silica (Quartz)	TWA: 0.05 mg/m ³ (R)	TWA: .025 mg/m ³ (R)	NA	25 mg/m ³

Notes:

1. OSHA PEL are 8-hour TWA (Time-weighted average) concentrations unless otherwise noted. A ("C") designation denotes a ceiling limit, which should not be exceeded during any part of the working exposure unless otherwise noted. A Short Term Exposure Limit (STEL) is defined as a 15-minute exposure, which should not be exceeded at any time during a workday.
2. Threshold Limit Values – TWA established by the ACGIH represents the TWA concentration for a conventional 8-hour workday and a 40-hour workweek, to which it is believed that nearly all workers may be repeatedly exposed, day after day, for a working lifetime without adverse effect; Short-Term Exposure Limit (TLV-STEL) represents a 15-minute TWA exposure that should not be exceeded at any time during a work day. ACGIH TLV's are for guideline purposes only and as such are not legal, regulatory limits for compliance purposes.
3. The exposure limits developed by the manufacturer are for guideline purposes only and as such are not legal, regulatory limits for compliance purposes.
4. The "immediately dangerous to life or health air concentration values (IDLHs)" are used by NIOSH as part of a respiratory selection criteria.



(b) Appropriate engineering controls: General ventilation is adequate for normal application of this product. If user operations include sanding or otherwise generate increased levels of airborne dust, local exhaust ventilation may be necessary. When ventilation is inadequate, other engineering controls must be implemented to control dust levels below permissible exposure levels (See Section 2). When engineering controls are not feasible, wear appropriate respiratory protection.

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(c) Individual protection measures:

	<ul style="list-style-type: none"> Wear a properly fitted NIOSH/MSHA approved respiratory device with appropriate cartridges whenever the TLV or PEL is exceeded. Respirators should be selected and used in accordance with the OSHA respirator standard (29 CFR 1910.134). Wear NIOSH/MSHA approved respiratory device when spraying or dry sanding.
	<ul style="list-style-type: none"> Wear safety glasses or goggles during sanding operations. Eye protection should be selected and used in accordance with the OSHA eye and face protection standard (29 CFR 1910.133).
	<ul style="list-style-type: none"> Wear protective gloves when necessary to prevent irritation to the skin. Hand protection should be selected and used in accordance with the OSHA hand protection standard (29 CFR 1910.138).

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material, and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties	
(a) Appearance:	White Liquid
(b) Odor:	Low odor
(c) Odor Threshold:	N/A
(d) pH:	10
(e) Melting point/Freezing point:	32°F
(f) Boiling point/range:	Approx.. 204°F
(g) Flash Point:	N/A
(h) Evaporation rate:	N/A
(i) Flammability:	N/A
(j) UFL/LFL or UEL/LEL:	N/A
(k) Vapor pressure:	N/A
(l) Vapor density:	N/A
(m) Relative density:	10.5 to 11 lbs. per gallon
(n) Solubility:	Slightly soluble in water
(o) Partition coefficient:	N/A
(p) Auto-ignition temperature:	N/A
(q) Decomposition temperature:	N/A
(r) Viscosity:	N/A

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SECTION 10: STABILITY AND REACTIVITY

- (a) **Reactivity:** No data.
- (b) **Chemical stability:** Material is stable under normal conditions.
- (c) **Possibility of hazardous reactions:** None known.
- (d) **Conditions to avoid (e.g., static discharge, shock, or vibration):** None identified.
- (e) **Incompatible materials:** None identified.
- (f) **Hazardous decomposition products:** Above 800°C, calcium carbonate (limestone) may decompose to calcium oxide (CaO).
- (g) **Hazardous Polymerization:** Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

- (a) **Information on likely routes of exposure:**
 - **Inhalation:** Inhalation of high concentrations of dust during sanding can irritate the nose, throat, and the upper respiratory tract.
 - **Accidental Ingestion:** Do not ingest. No known adverse effect.
 - **Skin contact:** Direct, prolonged or repeated contact with the skin can cause irritation.
 - **Eye contact:** Direct contact with the eye can cause temporary irritation.
- (b) **Symptoms related to physical, chemical and toxicological characteristics:** irritation.
- (c) **Delayed and immediate effects and also chronic effects from short- and long-term exposure:**

Prolonged or repeated exposure to airborne dust containing crystalline silica can cause severe scarring of the lungs, a disease called silicosis. The risk of developing silicosis is dependent on the airborne concentration of respirable-size silica to which an employee is exposed and the duration of the exposure.
- (d) **Numerical measures of toxicity:** No toxicity data is available for the Ruco Equalizer mixture as a whole.

Acute Toxicity (Oral)

Chemical	Tested % Weight	Model	LD ₅₀ Range (mg/kg bw)	Reference
Calcium Carbonate	10 - 40%	N/A	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0 - 15%	Rodent	>2,000 mg/kg	Supplier MSDS, 2013
Pyrophyllite	0 - 10%	N/A	N/A	Supplier MSDS, 2013
Anhydrous Aluminum Silicate	0 - 10%	N/A	N/A	Supplier MSDS, 2012
Titanium Dioxide	0 - 10%	N/A	N/A	RTECS, 2013
Attapulgate	0 - 4%	N/A	N/A	HSDB, 2013
Crystalline Silica (Quartz)	0 - 1%	N/A	N/A	RTECS, 2013; HSDB, 2013

Acute Toxicity (Dermal)

Chemical	Tested % Weight	Model	LD ₅₀ Range (mg/kg bw)	Reference
Calcium Carbonate	10 - 40%	N/A	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0 - 15%	N/A	N/A	Supplier MSDS, 2013
Pyrophyllite	0 - 10%	N/A	N/A	Supplier MSDS, 2013

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Acute Toxicity (Dermal)

Chemical	Tested % Weight	Model	LD ₅₀ Range (mg/kg bw)	Reference
Anhydrous Aluminum Silicate	0 – 10%	N/A	N/A	Supplier MSDS, 2012
Titanium Dioxide	0 – 10%	N/A	N/A	RTECS, 2013
Attapulgate	0 - 4%	N/A	N/A	HSDB, 2013
Crystalline Silica (Quartz)	0 - 1%	N/A	N/A	RTECS, 2013; HSDB, 2013

Acute Toxicity (Inhalation)

Chemical	Tested % Weight	Model	LD ₅₀ Range (mg/kg bw)	Reference
Calcium Carbonate	10 - 40%	N/A	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0 – 15%	N/A	N/A	Supplier MSDS (Wacker Polymers, 2013)
Pyrophyllite	0 - 10%	N/A	N/A	Supplier MSDS, 2013
Anhydrous Aluminum Silicate	0 – 10%	N/A	N/A	Supplier MSDS, 2012
Titanium Dioxide	0 – 10%	N/A	N/A	RTECS, 2013
Attapulgate	0 - 4%	N/A	N/A	HSDB, 2013
Crystalline Silica (Quartz)	0 - 1%	N/A	N/A	RTECS, 2013; HSDB, 2013

Skin Corrosion/Irritation

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10 - 40%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0 – 15%	N/A	No listing in RTECS or HSDB; Supplier MSDS (5/3/2013) states clinically relevant skin irritation hazard is not expected. "Conclusion by analogy OECD 404"
Pyrophyllite	0 - 10%	N/A	No listing in RTECS or HSDB; Supplier MSDS notes possible mechanical skin irritation
Anhydrous Aluminum Silicate	0 – 10%	N/A	Supplier MSDS, 2012
Titanium Dioxide	0 – 10%	N/A	RTECS, 2013
Attapulgate	0 - 4%	N/A	HSDB, 2013
Crystalline Silica (Quartz)	0 - 1%	N/A	RTECS, 2013; HSDB, 2013

Eye Damage/Irritation

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10 - 40%	N/A	RTECS, 2013; Supplier MSDS notes slightly irritating to the eyes
Ethylene Vinyl Acetate Polymer	0 – 15%		No listing in RTECS or HSDB; Supplier MSDS (5/3/2013) states clinically relevant eye irritation hazard is not expected. "Conclusion by analogy OECD 405"
Pyrophyllite	0 - 10%	N/A	No listing in RTECS or HSDB; Supplier MSDS notes with regards to the eyes:

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Eye Damage/Irritation

Chemical	% Weight	Symptom	Reference
			"May cause mechanical irritation"
Anhydrous Aluminum Silicate	0 – 10%	N/A	Supplier MSDS, 2012
Titanium Dioxide	0 – 10%	N/A	RTECS, 2013
Attapulgate	0 - 4%	N/A	HSDB, 2013; Supplier MSDS notes mild mechanical irritation to the eyes
Crystalline Silica (Quartz)	0 - 1%	N/A	RTECS, 2013;

Respiratory Sensitization

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10 - 40%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0 – 15%	N/A	Supplier MSDS, 2013
Pyrophyllite	0 - 10%	N/A	Supplier MSDS, 2013
Anhydrous Aluminum Silicate	0 – 10%	N/A	Supplier MSDS, 2012
Titanium Dioxide	0 – 10%	N/A	RTECS, 2013
Attapulgate	0 - 4%	N/A	HSDB, 2013
Crystalline Silica (Quartz)	0 - 1%	N/A	RTECS, 2013; HSDB, 2013

Skin Sensitization

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10 - 40%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0 – 15%	N/A	Supplier MSDS, 2013
Pyrophyllite	0 - 10%	N/A	Supplier MSDS, 2013
Anhydrous Aluminum Silicate	0 – 10%	N/A	Supplier MSDS, 2012
Titanium Dioxide	0 – 10%	N/A	RTECS, 2013
Attapulgate	0 - 4%	N/A	HSDB, 2013
Crystalline Silica (Quartz)	0 - 1%	N/A	RTECS, 2013; HSDB, 2013

Germ Cell Mutagenicity

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10 - 40%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0 – 15%	N/A	No listing in RTECS or HSDB; Supplier MSDS notes: "Based on known data a significant mutagenic potential may be excluded... Conclusion by analogy OECD 471."
Pyrophyllite	0 - 10%	N/A	No listing in RTECS or HSDB; Supplier MSDS indicates there are no known mutagenic effects
Anhydrous Aluminum Silicate	0 – 10%	N/A	Supplier MSDS, 2012
Titanium Dioxide	0 – 10%	N/A	RTECS, 2013
Attapulgate	0 - 4%	N/A	HSDB, 2013 indicates no genetic studies found
Crystalline Silica (Quartz)	0 - 1%	N/A	RTECS, 2013

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(e) Carcinogenicity:

Rucoat Equalizer is not listed by the IARC, NTP, OSHA, or ACGIH as a carcinogen. Ruco Equalizer may contain crystalline silica, which can cause a disease called silicosis. Crystalline silica is classified by IARC as carcinogenic to humans (Group 1). The National Toxicology Program (NTP) has characterized respirable silica as “known to be a human carcinogen.” The ACGIH lists silica as a suspected human carcinogen (Group A2).

Carcinogenicity

Compound	ACGIH	IARC	NTP	Cal 65
Calcium Carbonate (Limestone)	Not listed	Not listed	Not listed	Not listed
Ethylene Vinyl Acetate Polymer	Not listed	Not listed	Not listed	Not listed
Pyrophyllite	Not listed	Not listed	Not listed	Not listed
Anhydrous Aluminum Silicate (Calcined Kaolin)	Not listed	Not listed	Not listed	Not listed
Titanium Dioxide	A4-Not Classifiable as a Human Carcinogen	Group 2B -Possibly carcinogenic to humans	Not listed	Listed
Attapulgite (palygorskite)	Not listed	Not listed	Not listed	Listed
Crystalline Silica (Quartz)	A2- Suspected Human Carcinogen	Group 1 – Known Human Carcinogen	Known Human Carcinogen	Listed

SECTION 12: ECOLOGICAL INFORMATION

This product has no known adverse ecological effects.

- (a) Ecotoxicity: No Data
- (b) Persistence and degradability: No Data
- (c) Bioaccumulative potential: No Data
- (d) Mobility in soil: No Data
- (e) Other adverse effects: Not know to be hazardous to the ozone layer: No Data

SECTION 13: DISPOSAL CONSIDERATIONS

Description of waste residues and safe handling: Use normal clean up procedures. Floor may be slippery; use care to avoid falling. Scoop or shovel spilled material into an appropriate waste container for disposal. Never discharge large releases directly into sewers or surface waters.

Methods of disposal: Waste must be disposed in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

This product is not a hazardous material per DOT shipping regulations.

- (a) UN number: No applicable information
- (b) UN proper shipping name: No applicable information
- (c) Transport Hazard classes: No applicable information
- (d) Packing group: No applicable information

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- (e) Environmental hazards
 - i. Marine pollutant: No
- (f) Transport in bulk
 - i. IBC Code – No applicable information
 - ii. Annex II of MARPOL 73/78 - No applicable information
- (g) Special precautions: No applicable information

SECTION 15: REGULATORY INFORMATION

OSHA/MSHA HAZARD COMMUNICATION: This product is considered hazardous and should be a part of the employer's hazard's communication program.

CERCLA- Not considered hazardous

EPCRA 302- Not considered hazardous

EPCRA 304- Not considered hazardous

SARA 313- Not considered hazardous

SECTION 16: OTHER INFORMATION

Date of Preparation or Last Change: 1/26/2018

Abbreviations and acronyms:

N/C – Not Classified – No concern based on consideration of the sum of available data.

N/D – Not Determined

N/A – Not Applicable or Not Available

N/R – Not Regulated

CAS – Chemical Abstract Service

EC – European Community

STOT – Specific Target Organ Toxicity

OSHA – US Occupational Safety and Health Organization

PEL – OSHA Permissible Exposure Limits

ACGIH – American Conference of Governmental Industrial Hygienists

TLV – ACGIH® Threshold Limit Values

REL – Recommended Exposure Limits

IDLH – Immediately Dangerous to Life or Health

TWA – Time Weighted Average – Average exposure over a specified period of time (i.e., 8 hours)

STEL - a 15-minute TWA exposure that should not be exceeded at any time during a work day.

Ceiling – Exposure limit which shall at no time be exceeded during the work day.

NE – None Established

APF – Assigned Protection Factor – the level of respiratory protection that a respirator is expected to provide.

UEL – Upper Explosive Limit – Highest concentration (percentage) of a gas or vapor in air capable of producing a flash fire in the presence of an ignition source

LEL – Lower Explosive Limit – Lowest concentration (percentage) of a gas or vapor in air capable of producing a flash fire in the presence of an ignition source.

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UFL – Upper Flammability Limit - Maximum concentration of vapor in air above which propagation of a flame will not occur in the presence of an ignition source.

LFL – Lowest concentration at which a flammable mixture of gas or vapor in air can ignite at a given temperature and pressure.

IARC – International Agency for Research on Cancer

NTP – National Toxicology Program

NIOSH- National Institute for Occupational Safety and Health

NOAA – National Oceanic and Atmospheric Administration

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

RTECS – Registry of Toxic Effects of Chemical Substances

HSDB – Hazardous Substances Data Bank

Disclaimer:

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions