

SAFETY DATA SHEET



Ruco Concrete Surfacers

Revision Date: 1/26/18

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
Calcium Sulfate (Plaster of Paris)	NE	NE	NE	NE
Perlite, expanded	NE	NE	NE	NE
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
Attapulgite (palygorskite)	NE	NE	NA	N/D
Starch	NE	NE	NE	NE
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 particulate 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:	Off White Paste
(b) Odor:	Low odor
(c) Odor Threshold:	N/A
(d) pH:	7 – 8.5
(e) Melting point/Freezing point:	N/A
(f) Boiling point/range:	N/A
(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:	N/A
(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 Concrete Surfacers mixture as a whole.

Acute Toxicity (Oral)

Chemical	% Weight	Model	LD ₅₀ Range (mg/kg bw)	Reference
Calcium Carbonate	10-40%	N/A	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	N/A	RTECS, 2013
Perlite, expanded	0-10%	Rodent	6,450 - 12,960 mg/kg	Supplier MSDS; RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	Rodent	>2,000 mg/kg	Supplier MSDS
Pyrophyllite	0-10%	N/A	N/A	Supplier MSDS
Attapulgit	0-10%	N/A	N/A	HSDB, 2013
Starch	0-5%	N/A	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A	N/A	RTECS, 2013; HSDB, 2013

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Acute Toxicity (Dermal)

Chemical	% Weight	Model	LD ₅₀ Range (mg/kg bw)	Reference
Calcium Carbonate	10-40%	N/A	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	N/A	N/A	No listing in RTECS, or HSDB
Pyrophyllite	0-10%	N/A	N/A	No listing in RTECS, or HSDB
Attapulgit	0-10%	N/A	N/A	HSDB, 2013
Starch	0-5%	N/A	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A	N/A	RTECS, 2013

Acute Toxicity (Inhalation)

Chemical	% Weight	Model	LD ₅₀ Range (mg/kg bw)	Reference
Calcium Carbonate	10-40%	N/A	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	N/A	N/A	No listing in RTECS, or HSDB
Pyrophyllite	0-10%	N/A	N/A	No listing in RTECS, or HSDB
Attapulgit	0-10%	N/A	N/A	HSDB, 2013
Starch	0-5%	N/A	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A	N/A	RTECS, 2013

Skin Corrosion/Irritation

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10-40%	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	N/A	No listing in RTECS or HSDB; Supplier MSDS 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
Attapulgit	0-10%	N/A	HSDB, 2013
Starch	0-5%	Mild (0.3 mg/3 day inter.)	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A	RTECS, 2013

Direct, prolonged or repeated contact with the skin can cause irritation.

Eye Damage/Irritation

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10-40%	N/A	RTECS, 2013; Supplier MSDS notes slightly irritating

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Eye Damage/Irritation

Chemical	% Weight	Symptom	Reference
			to the eyes
Calcium Sulfate	0-70%	N/A	RTECS, 2013; Supplier MSDS notes: "Direct contact can cause mechanical irritation of eyes"
Perlite, expanded	0-10%	N/A	RTECS, 2013; Supplier MSDS notes eye irritation as a sign of exposure
Ethylene Vinyl Acetate Polymer	0-10%	N/A	No listing in RTECS or HSDB; Supplier MSDS 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: "May cause mechanical irritation"
Attapulgate	0-10%	N/A	HSDB, 2013; Supplier MSDS notes mild mechanical irritation to the eyes
Starch	0-5%	N/A	RTECS, 2013; Supplier MSDS notes eye irritation is possible if heavy concentrations are encountered.
Crystalline Silica (Quartz)	0-2%	N/A	RTECS, 2013;

Respiratory Sensitization

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10-40%	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	N/A	No listing in RTECS, or HSDB
Pyrophyllite	0-10%	N/A	No listing in RTECS, or HSDB
Attapulgate	0-10%	N/A	HSDB, 2013
Starch	0-5%	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A	RTECS, 2013

Skin Sensitization

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10-40%	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	N/A	No listing in RTECS, or HSDB
Pyrophyllite	0-10%	N/A	No listing in RTECS, or HSDB
Attapulgate	0-10%	N/A	HSDB, 2013
Starch	0-5%	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A	RTECS, 2013

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Germ Cell Mutagenicity

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10-40%	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	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
Attapulgite	0-10%	N/A	HSDB, 2013 indicates no genetic studies found
Starch	0-5%	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A	RTECS, 2013

Reproductive Toxicity

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10-40%	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	N/A	No listing in RTECS, or HSDB
Pyrophyllite	0-10%	N/A	No listing in RTECS, or HSDB
Attapulgite	0-10%	N/A	HSDB, 2013
Starch	0-5%	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A	RTECS, 2013

Specific Target Organ Toxicity (STOT) (Single Exposure)

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10-40%	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	RTECS, 2013
Ethylene Vinyl Acetate Polymer	0-10%	N/A	No listing in RTECS, or HSDB
Pyrophyllite	0-10%	N/A	No listing in RTECS, or HSDB
Attapulgite	0-10%	N/A	HSDB, 2013
Starch	0-5%	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	N/A*	RTECS, 2013

*Inhalation of high concentrations of dust during sanding can irritate the nose, throat, and the upper respiratory tract.

Specific Target Organ Toxicity (STOT) (Repeated Exposure)

Chemical	% Weight	Symptom	Reference
Calcium Carbonate	10-40%	N/A	RTECS, 2013
Calcium Sulfate	0-70%	N/A	RTECS, 2013
Perlite, expanded	0-10%	N/A	RTECS, 2013
Ethylene Vinyl Acetate	0-10%	N/A	No listing in RTECS, or HSDB

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Specific Target Organ Toxicity (STOT) (Repeated Exposure)			
Chemical	% Weight	Symptom	Reference
Polymer			
Pyrophyllite	0-10%	N/A	No listing in RTECS, or HSDB
Attapulgit	0-10%	N/A	HSDB, 2013
Starch	0-5%	N/A	RTECS, 2013
Crystalline Silica (Quartz)	0-2%	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.	HSDB, 2013

(e) Carcinogenicity:

Ruco Concrete Surfacer is not listed by the IARC, NTP, OSHA, or ACGIH as a carcinogen. Ruco Concrete Surfacer 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
Calcium Sulfate (Plaster of Paris)	Not listed	Not listed	Not listed	Not listed
Perlite, expanded	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
Attapulgit (palygorskite)	Not listed	Not listed	Not listed	Listed
Starch	Not listed	Not listed	Not listed	Not 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.

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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
- (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: 5/17/17

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

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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.

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