SAFETY DATA SHEET

SECTION 1 – Product/Company Information

TOWER SEALANTS
2095 Memorial Park Road
Gainesville, GA 30504

Tech Phone: 770-535-8782
Fax: 770-535-8789

Chemtrec Emergency Phone Number: 800-424-9300 **Monday-Friday 8:00 am – 5:00 pm (EST)**

Trade Name: ALLPRO PRO PATCH VINYL SPACKLE, 13115, 13116

Trade Name: Vinyl Spackle

Product Family: Mixture

Recommended Use: Multi-purpose spackling compound

Section 2-Hazard(s) Identification

NOTE: Under normal and recommended use conditions, this product is not expected to cause adverse health effects.
GHS Hazard Classification:

Carcinogenicity: Category 1A

Specific target organ toxicity, repeated exposure: Category 1 (Lungs)

Skin Sensitization: Category 1

GHS Pictogram:

GHS Signal Word: DANGER

Hazard Statement(s):

H317: **May cause an allergic skin reaction.**
H350: **May cause cancer.**
H372: **Causes damage to organs (lung/respiratory system.) through prolonged or repeated exposure (inhalation).**

Precautionary Statement(s):

P101**: If medical advice is needed, have product container or label at hand.**
P102: **Keep out of reach of children.**
P103: **Read label before use.**
P201: **Obtain special instructions before use**.
P202: **Do not handle until all safety precautions have been read and understood.**
P261: **Avoid breathing dust/fume/gas/mist/vapours/spray**.
P264: **Wash any body part (skin, eyes) in contact with product thoroughly after handling.**
P270: **Do not eat, drink or smoke when using this product.**

P272: **Contaminated work clothing should not be allowed out of workplace.**
P280: **Wear protective gloves/protective clothing/eye protection/face protectio**n.
P321: **Specific treatment (See Section 4 on the SDS).**
P333: **If skin irritation or rash occurs: seek medical attention.**
P352: **Wash with plenty of water for several minutes.**
P302+P352**: IF ON SKIN: Wash with plenty of soap and water**.
P308+P313: **IF exposed or concerned: Get medical advice/attention.**
P333+P313: **If skin irritation or rash occurs: Get medical advice/attention.**
P362+P364: **Take off contaminated clothing and wash it before reuse.**
P405: **Store locked up.**
P501: **Dispose of contents/container in accordance with local/regional/national/international regulation.**

Emergency Overview: This product contains crystalline silica (quartz) as a naturally occurring impurity in some of the raw materials, which can cause lung damage and is a cancer hazard. Risk of injury is dependent on the duration and level exposure. Exposures to respirable crystalline silica are not expected or are minimal during the recommended use of this product. However, ventilation may be necessary to keep exposures below recommended exposure limits. Breathing protection required if product is sanded or abraded. See Section 11 and 16 for more health information on silica and other ingredients.

Section 3-Composition/Information on Ingredients

Substance/Mixture: Mixture

Hazardous Components:

Common Name	C.A.S. No.	Wt. %
Vinyl Acetate Homopolymer Solution	Mixture	5 max
Crystalline Silica* (naturally occurring component of mined fillers)	14808-60-7	1.5 max
Calcium Carbonate*	1317-65-3	75 max
Chlorothalonil	1897-45-6	0.20 max
Bicyclic Oxazolidines	Mixture	0.20 max
Proprietary Hazardous Ingredients**	---------	2.0 max

*Calcium Carbonate may contain crystalline silica at levels between 0.01% and 2% and varies naturally. See **SECTION 16** for further information on crystalline silica**.**

**Proprietary Hazardous Ingredients are considered a "Trade Secret". These ingredients, to the current knowledge of supplier/manufacturer, are at concentrations which do not require reporting under the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

Non-Hazardous Components:

Non-Hazardous Ingredients are not considered hazardous by the Federal Hazard Communication Standard 29 CFR 1910.1200

Common Name	C.A.S. No.	Wt. %

Other Non-Hazardous Ingredients ---------- max

Section 4-First Aid Measures

First Aid Measures:

Skin contact: Wash affected area with soap and water. Consult physician if irritation persists. Remove and wash contaminated clothing.

Inhalation: Remove patient to fresh air and keep at rest in position comfortable for breathing. Consult physician if irritation persists.

Ingestion: Do not induce vomiting. Consult physician immediately.

Eye contact: Flush eyes with large quantities of water. Check for and remove contact lenses. Consult physician if irritation persists.

Most important symptoms and effects, both acute and delayed:

Skin contact: May cause allergic skin reaction. May cause skin irritation which may result in redness and dry skin.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhea and vomiting. May be irritating to mouth, throat and stomach.

Eye contact: Causes eye irritation which can cause redness, eye-tearing and discomfort.

Inhalation: May cause irritant effects, coughing, discomfort in the chest and shortness of breath.

Protection of First-Aiders: No action shall be taken involving any personal risk or without suitable training. May be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician: Treat symptomatically and supportively. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5- Firefighting Measures

Extinguishing Media: Use media suitable for surrounding materials; Foam, Dry Chemical, Carbon Dioxide. Water spray may be ineffective. If water is used, fog nozzles are preferable.

Unsuitable Extinguishing Media: Not known

Hazardous Combustion Products: May include the following: Carbon oxides, Metal oxides

Special firefighting procedures: Remain upwind. Avoid breathing smoke. Exposed firefighters must wear NIOSH-approved positive pressure self-contained apparatus with full-face mask and full protective clothing. Do not inhale combustion gases.

Specific Hazards Arising from the chemical/mixture: Material can splatter above 100^0C/212^0F. Closed containers may explode when exposed to extreme heat (due to pressure increase). Water may be used to cool closed containers to prevent pressure increase and possible auto ignition or explosion when exposed to extreme heat.

Section 6- Accidental Release Measures

Personal precautions: Avoid eye contact. Remove possible ignition sources. Use in well ventilated area. Wash contacted skin as soon as possible after exposure. Do not eat, drink or smoke while cleaning up. Material may create slippery conditions. Minimize any non-essential personnel from spill area.

Methods and materials for cleanup and containment: Contain spills with inert material (sand, earth). Transfer separate suitable containers for recovery or disposal. Dispose of in accordance with Federal, State and local guidelines for handling nonhazardous waste.

Environmental precautions: Avoid release into the environment such as municipal sewers and open bodies of water.

Section 7- Handling and Storage

Precautions for safe handling: Avoid eye and skin contact. Do not ingest. Use appropriate personal protection equipment. Do not handle or use until all instructions and safety precautions have been read and understood. Use in well ventilated area. Wash contacted skin as soon as possible after exposure. **Keep away from children and pets.** Do not eat, drink or smoke while using this product. Remove contaminated clothing.

Conditions for safe storage: Keep containers tightly closed when not in use. Stable under normal conditions but store between 40^0F and 90^0F away from direct sunlight. Keep away from foodstuffs or drinking water. Observe good housekeeping practices. Keep away from incompatible materials.

Section 8- Engineering Controls and Personal Protection

Hazardous Component(s) with workplace control parameters:

Common Name/ C.A.S. Number	OSHA PEL	ACGIH TLV	NIOSH IDHL
Calcium Carbonate 1317-65-3	Total Dust: 15 mg/m^3 Respirable: 5 mg/m^3 Vacated Total Dust: 15 mg/m^3 Vacated Respirable: 5 mg/m^3	***	Total Dust: 10 mg/m^3 Respirable: 5 mg/m^3
Silica, quartz, crystalline 14808-60-7	Total Dust: 30 mg/m^3 % SiO2+2 Respirable: 10 mg/m^3 % SiO2+2	Respirable: 0.025 mg/m^3	REL: Respirable: 0.05 mg/m^3
Vinyl Acetate Homopolymer Solution Mixture	AIHA WEEL: Skin Sensitizer: TWA: 0.1 mg/m^3 (8 hr)		
Cellulosic fibers 9004-34-6	Total Dust: 15 mg/m^3 Respirable: 5 mg/m^3	***	REL: Total Dust: 10 mg/m^3 REL: Respirable: 5 mg/m^3

Unless otherwise noted, all PEL and TLV values are reported as 8-hour time weighted averages (TWA).

Component(s) without workplace control parameters:

Common Name	C.A.S. No.
Bicyclic Oxazolidines	Mixture

Chlorothalonil 1897-45-6

Engineering Measures: Use local exhaust ventilation or other engineering controls, if necessary, to maintain dust/vapour/mist/fumes/gas concentration(s) below recommended exposure limits.

Personal Protective Equipment:

Respiratory Protection: Avoid breathing of dust/vapour/mist/fumes/gas. Wear NIOSH-approved respiratory protection when working in enclosed areas.

Skin Protection:

Hand: Protective Gloves: Wear chemically resistant, impervious gloves to avoid skin contact.

Body: Protective equipment for body should be selected based on the task being performed and the risks involved**.** Safety shower accessibility.

Eye Protection: Eye protection in the form of protective glasses or goggles is recommended. Eyewash facility accessibility.

Hygiene Measures: Do not eat, drink or smoke when using this product. Wash hands and contacted areas with soap and water before taking breaks and after completing work.
Observe good industrial and personal hygiene practices. Remove and wash contaminated clothing prior to re-use.

Section 9- Physical/Chemical Characteristics

Physical State:	Paste	**Odor Threshold:**	Not determined
Appearance	White paste	**Odor**:	Mild Latex
Vapor Pressure:	>1 (mm Hg)	**Flash Point:**	Not determined
Water Solubility:	Partial	**pH:**	8.0-9.0
Vapor Density (Air =1):	<1	**Specific Gravity**:	1.74-1.86 (water =1)
Evaporation Rate (Water =1):	1	**Freezing Point:**	Not determined
Melting Point:	Not determined	**Relative Density**:	Not determined
Flammability (solid, gas):	Not determined		
Autoignition Temperature:	Not determined		
Decomposition Temperature:	Not determined		

Flammable Limits: Lower: Not Available **Upper**: Not Available
Partition coefficient: n-octanol/water: Not determined
Initial Boiling Point and Boiling Range: Variable
Percent Volatile: 20 % maximum
Volatile Organic Compounds (V.O.C.) (Theoretical): 0.805 wt. percentage, 14.5g/l

Section 10- Stability and Reactivity Data

Chemical Stability: Stable (Avoid temperatures above 177^0C/350^0F)

Conditions to Avoid: Excessive heat and freezing temperatures

Incompatible Materials: None known

Hazardous Decomposition Products: Oxides of carbon, trace ammonia.

Under normal conditions of storage and use, hazardous decomposition products should not occur.

Reactivity: Non-reactive when product is used in accordance with intended use.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous Polymerization: Will not occur

Section 11- Toxicological Information

NOTE: The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

Effects of Overexposure:

Oral: Not an expected route of exposure. Single dose oral toxicity is low. Amounts ingested incidentally to industrial handling are not likely to cause injury; however, ingestion of large amounts may cause injury and nausea, gastrointestinal upset and pain.

Dermal: May cause an allergic skin reaction. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Inhalation: Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged and repeated exposure to respirable crystalline silica can cause silicosis, lung damage and/or lung cancer.

Eyes: Airborne particulates may cause temporary irritation such as tearing, redness and pain.

Acute Health Hazards:

Oral: Not classified. No data available on mixed product.
Dermal: Not classified. No data available on mixed product.
Inhalation: Not classified. No data available on mixed product.

Acute Health Hazards:

Ingredients:

Common Name/ C.A.S. Number	Oral LD50	Dermal LD50	Inhalation LD50
Silica, quartz, crystalline 14808-60-7	500 mg/kg (Rat)	>2000 mg/kg	>20mg/L
Calcium Carbonate 1317-65-3	6450 mg/kg	***	***
Distillates (Petroleum), Hydro treated Heavy Paraffinic	>5000 mg/kg (Rat)	***	***

64742-52-5			
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate 25265-77-4	6500 mg/kg (Rat)	15200 mg/kg (Rabbit)	> 3.55 mg/L (Rat) 6 h
Bicyclic Oxazolidines Mixture	1876 mg/kg (Rat-Female)	>2000 mg/kg (Rabbit)	***
Glyoxal 107-22-2	200 mg/kg (Rat)	12,700 mg/kg (Rabbit)	2.44 mg/l (Rat) 4 hr
Tall Oil Fatty Acids 61790-12-3	>10000 mg/kg (Albino Sprague-Dawley Rat) 14 days No death occurred at this dose	>2000 mg/kg (Albino Rabbit) 14 days No death occurred at this dose.	***
Octylphenol Ethoxylate 9036-19-5	1900 mg/kg (Rat) Assessment: Moderately toxic after single ingestion.	>2000 mg/kg (Rabbit)	***
Chlorothalonil 1897-45-6	10000 mg/kg (Rat) 3700 mg/kg (Mouse)	>2500 mg/kg	310 mg/m^3 (Rat) 1 h LC: 0.10 mg/L (Rat) 4 h

Chronic Health Hazards: Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged and repeated exposure to respirable crystalline silica can cause silicosis, lung damage and/or lung cancer, autoimmune diseases, tuberculosis, kidney disease, non-malignant respiratorydiseases. No data available on mixed product.

Sensitization (Skin): May cause an allergic skin reaction. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No data available on mixed product.

Sensitization (Respiratory): Not classified. No data available on mixed product.

Eye (Serious Damage/ Irritation): May cause mild eye irritation. No data available on mixed product.

Skin (Corrosion/Irritation): May cause mild skin irritation. No data available on mixed product.

STOT-single Exposure: Not classified. May cause irritation which can cause coughing, shortness of breath, discomfort in the chest and sneezing. No data available on mixed product.

STOT-repeated Exposure: May cause damage to organs (lung) through prolonged or repeated exposure by inhalation. Delayed effect from prolonged exposure to respirable crystalline silica can cause silicosis, lung damage and/or lung cancer, autoimmune diseases, tuberculosis, kidney disease, non-malignant respiratory diseases.

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Not classified. No data available on mixed product.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Not classified. No data available on mixed product.

Aspiration Hazard: Not classified. No data available on mixed product.

Carcinogenicity: May cause cancer. No data available on mixed product.

Ingredients:

Chemical Name/ CAS Number	IARC	OSHA	ACGIH	NTP
Crystalline Silica 14808-60-7	Group 1 Monograph 68[2011]	Present	A2	Known
Chlorothalonil 1897-45-6	Group 2B Monograph 73 [1999]	Not Classified	Not Classified	Not Classified

IARC Classification: Group 1: Human Evidence Group 2A: Limited Human Data Group2B: Sufficient Animal Data

Section 12- Ecological Information

Ecotoxicity:

Not expected to be an environmental pollutant based on individual ingredients. There is no data available on the mixed product. Do not dispose of in any waterway, sanitary or industrial sewer system. Nor does it exclude the possibility that large and frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicity of Ingredients:

Common Name/ C.A.S. Number	Toxicity to fish	Toxicity to Algae	Toxicity to daphnia/ other aquatic invertebrates
Silica, quartz, crystalline 14808-60-7	*LC50:>10000 mg/L (Carp) Exposure time: 72 hr	***	***
Glyoxal 107-22-2	*LC50: 215 mg/l *(Pimephales promelas)* Exposure time: 96 hr Method: Static	*EC50: 500 mg/l *Desmodesmus subspicatus* Exposure time: 96 hr *EC50: 348.59 mg/l *(Pseudokirchneriella subcapitata)* Exposure time: 96 hr Method: Static	*EC50: 404 mg/L (*Daphnia magna*) Exposure time: 48 hr Method: Static
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate 25265-77-4	*LC50: 33 mg/l (*Pimephales promelas* (fathead minnow)) Exposure time: 96 h Test Type: Static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes	*EC50: 15 mg/l *(Pseudokirchneriella subcapitata)* End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201	*EC50: 147.8 mg/l (*Daphnia magna* (Water flea)) Exposure time: 48 h Test Type: Static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Tall Oil Fatty Acids 61790-12-3	*Fish: LL50: > 10000 mg/l Exposure time: 96 hr (*Danio rerio*) Zebra danio	*Microorganisms: EC50: > 10000 mg/l (P*seudomonas putida)* Exposure time: 16 hr *Algae: EL50: > 1000 mg/l *(Selenastrum capricornutum)*	*Crustacea: EL50: > 1000 mg/l *(Daphnia magna)* Water flea Exposure time: 48 hr Method: OECD 202

		Green algae Exposure time: 72 hr Method: Growth rate; OECD 201	
Octylphenol Ethoxylate 9036-19-5	*LC50: 7.2 mg/l (*Oncorhynchus mykiss)* Rainbow trout Exposure time: 96 h	***	*EC50: 8.6 mg/l *Daphnia magna* (Water flea) Exposure time:48 hr
Chlorothalonil 1897-45-6	*LC50: 0.042 mg/l (*Oncorhynchus mykiss)* Rainbow trout, Donaldson trout) Exposure time: 96 h *LC50: 0.012 mg/l (*Oncorhynchus mykiss)* Rainbow trout Exposure time: 96 h Test Type: Semi-static test	*EC50: 0.57 mg/l (Algae, algal mat (*Algae*))	*LC50: 0.081 - 0.113 mg/l (Water flea (*Daphnia magna*)) Exposure time: 48 h Test Type: Static test
Bicyclic Oxazolidines Mixture	*LC50: 153 mg/l (*Lepomis macrochirus* (Bluegill sunfish)): Exposure time: 96 h *LC50: 240 mg/l (*Oncorhynchus mykiss)* Rainbow trout Exposure time: 96 h	*EbC50: 8.2 mg/l (Green algae) End point: Biomass Exposure time: 72 h *ErC50: 13 mg/l (Green algae) End point: Growth inhibition Exposure time: 72 h	*EC50: 77 mg/l (*Daphnia magna* (Water flea) Exposure time: 48 h

Persistence and Degradability: Not expected to be environmentally persistent. No data available on mixed product.

Ingredients:

2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate (25265-77-4):

Biodegradability: aerobic
Inoculum: Activated sludge, domestic, non-adapted
Concentration: 20 mg/L
Result: Readily biodegradable.
Biodegradation: > 98 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Bicyclic Oxazolidines (Mixture):

Biodegradation: 81 %
Exposure time: 28 d
Remarks: Readily biodegradable

Tall Oil Fatty Acids (CAS: 61790-12-3):

Biodegradability Percent Degradation (Aerobic):
CO2 Evolution Test: 88 - 100 %
Species: Activated sewage sludge
Test Duration: 28 d

Mobility: No data available on mixed product.

Ingredients:

Common Name	C.A.S. No.	Partition Coefficient n-octanol/water
Glyoxal	107-22-2	-0.85
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate	25265-77-4	3.2

Tall Oil Fatty Acids	61790-12-3	4.9 - 6 4.9 - 7.6 Log K^{ow}, at 30ºC; Data is for similar product.
Chlorothalonil	1897-45-6	3.05

Section 13- Disposal Information

Disposal Information: The generation of waste should be minimized whenever possible. Dispose of product and packaging in accordance with all local, state and federal laws and regulations. Waste product should not be discharged directly into drains or waterways without treatment. Wastewater containing product should be treated in a separation and biological treatment plant.

Section 14- Transport Information

Regulations:

	DOT Classification	IATA	IMDG
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	***	***	***
Transport Hazard Class(es)	***	***	***
Packing Group	***	***	***
Environmental Hazards	No	No	No
Additional Information	Not Applicable	Not Applicable	Not Applicable

Transport in bulk according to Annex II of MARPOL73/78and the IBC Code:

Not applicable for product as supplied.

Special Precautions: No information available

Section 15-Regulatory information

Emergency Planning and Community Right to Know:

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

Chemical Name	CAS Number
Vinyl Acetate	108-05-4
Disodium Phosphate	7558-79-4

SARA (Superfund Amendments and Reauthorization Act) TITLE III:

Section 302 Extremely Hazard Substances:

Chemical Name	CAS Number
Vinyl Acetate	108-05-4

Section 311/312 Hazards Category: (See Section 2)

New categories based on:
https://www.epa.gov/sites/production/files/2016-06/documents/haz_cats_tech_amend_factsheet_final_06-16-016.pdf

Physical Hazards: None

Health Hazards: Carcinogenicity: Category 1A

Specific Target Organ Toxicity, Repeated Exposure: Category 1 (Lungs)

Skin Sensitization: Category 1

Previous categories for Section 311/312:

Acute Health:	Yes
Chronic Health:	Yes
Fire:	No
Reactive:	No
Sudden Release of Pressure:	No

Section 313:

Chemical Name	CAS Number
Vinyl Acetate	108-05-4
Chlorothalonil	1897-45-6

RCRA: Discarded material is classified as a solid nonhazardous waste per 40 CFR 261.20-24.

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

California Proposition 65:

WARNING: This product can expose you to chemicals including [CRYSTALLINE SILICA (CAS 14808-60-7), CHLOROTHANIL (CAS 1897-45-6)], which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

There are no known Prop 65 components that cause birth defects or other reproductive harm in this product.

[Other Prop 65 components may be present in the product.]

State Right-To-Know:

Chemical	CAS Number	State(s)_____
Calcium carbonate	1317-65-3	New Jersey, Pennsylvania, Massachusetts
Crystalline Silica	14808-60-7	New Jersey, Massachusetts, Pennsylvania
Vinyl Acetate	108-05-4	New Jersey, Massachusetts
Bicyclic Oxazolidines	Mixture	New Jersey, Pennsylvania
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate	25265-77-4	New Jersey, Pennsylvania
Distillates (Petroleum), Hydro treated Heavy Paraffinic	64742-52-5	New Jersey, Pennsylvania
Octylphenol Ethoxylate	9036-19-5	New Jersey, Pennsylvania
Chlorothalonil	1897-45-6	New Jersey, Pennsylvania
Disodium Phosphate	7558-79-4	New Jersey Pennsylvania, Massachusetts

Section 16- Other Information

HMIS: Health: 1Flammability: 0 Reactivity: 0 Personal Protection: B

NFPA: Health: 1 Flammability: 0 Reactivity: 0 Special: None

HMIS Classification and NFPA Rating:

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

Abbreviations:

< = Less Than > = Greater Than
Trace = is less than 0.01 % or 100 ppm
ADR/RID = Agreement on Dangerous Goods by Road/Regulations concerning the International Transport of Dangerous Goods by Rail **AICS =** Australian Inventory of Chemical Substances **ASTM =** American Society for the Testing of Materials **bw =** body weight **CAS Number** = Chemical Abstracts Service Registry **CERCLA =** Comprehensive Environmental Response, Compensation, and Liability Act **CMR =** Carcinogen, Mutagen or Reproductive Toxicant **DIN =** Standard of the German Institute for Standardisation **DOT** = Department of Transportation **DSL =** Domestic Substances List (Canada) **ECx =** Concentration associated with x% response **EHS =** Extremely Hazardous Substance **EINECS/ELINCS** = European Inventory of Existing Commercial Chemical Substances/European List of Notified Chemical Substances **ELx =** Loading rate associated with x% response **EmS =** Emergency Schedule **ENCS =** Existing and New Chemical Substances (Japan) **ErCx =** Concentration associated with x% growth rate response **ERG =**

Emergency Response Guide **GHS =** Global Harmonization System **GLP =** Good Laboratory Practice **HMIS** = Hazardous Material Identification System **IARC =** The International Agency for Research on Cancer **IATA** = International Air Transportation Association **IBC =** International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk **IC50 =** Half maximal inhibitory concentration **ICAO =** International Civil Aviation Organization **IECSC =** Inventory of Existing Chemical Substances in China **IMDG** = International Maritime Dangerous Goods **IMO =** International Maritime Organization **ISHL =** Industrial Safety and Health Law (Japan) **ISO =** International Organisation for Standardisation **KECI =** Korea Existing Chemicals Inventory **LC50 =** Lethal Concentration of 50% of a test population **LD50 =** Lethal Dose of 50% of a test population (Median Lethal Dose) **MARPOL = I**nternational Convention for the Prevention of Pollution from Ships **MSHA =** Mine Safety and Health Adminstration **n.o.s. =** Not Otherwise Specified **NFPA** = National Fire Protection Association **NIOSH** = National Institute for Occupational Safety and Health **NO(A)EC =** No Observed (Adverse) Effect Concentration **NO(A)EL =** No Observed (Adverse) Effect Level **NOELR =** No Observed (Adverse) Effect Loading Rate **NTP =** National Toxicology Program **NZIoC =** New Zealand Inventory of Chemicals **OECD =** Organization for Economic Co-operation and Development **OPPTS =** Office of Chemical Safety and Pollution Prevention **OSHA** = Occupational Safety and Health Administration **PBT =** Persistent, Bioaccumulative and Toxic Substances **PEL** = Permissible Exposure Limits **PICCS =** Philippines Inventory of Chemicals and Chemical Substances **PPM** = Parts Per Million **(Q)SAR =** (Quantative) Structure Activity Relationship **RCRA** = Resource Conservation and Recovery Act **REACH =** Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals **RQ =** Reportable Quantity **SADT =** Self-Accelerating Decomposition Temperature **SARA** = Superfund Amendments and Reauthorization Act **SDS =** Safety Data Sheet **STEL** = Short Term Exposure Limits T**CSI =** Taiwan Chemical Substances Inventory **TLV** = Threshold Limit Value **TSCA =** Toxic Substances Control Act (United States) **TWA** = Time Weighted Average **UN =** United Nations **UNRTDG =** United Nations Recommendations on the Transport of Dangerous Goods **vPvB =** Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (Rev.6) (2015)

http://www.unece.org/trans/danger/publi/ghs/ghs_rev06/06files_e.html

Occupational Safety and Health Administration (OSHA)
https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=standards&p_id=10099

Silica, Crystalline, additional information:

The U.S. National Institute for Occupational Safety and Health (NIOSH) and Occupational Safety and Health Administration (OSHA) maintain sites with information about crystalline silica and its potential health effects. For NIOSH, http://www.cdc.gov/niosh/topics/silica; for OSHA, http://www.osha.gov/dsg/topics/silicacrystalline/index.
The IARC Monograph concerning crystalline silica, Volume 100C, can be accessed in PDF form at the IARC web site, http://monographs.iarc.fr/ENG/Monographs/PDFs/index.php.

Acute and Chronic Health conditions related to crystalline silica exposure: silicosis, cancer, autoimmune diseases, tuberculosis, kidney disease, non-malignant respiratory diseases.

Prepared by:

Atlas Putty Products Company http://www.putty.com/

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information andbelief at the date of its publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or qualityspecification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.