

SAFETY DATA SHEET

Section 1-Product and Company Identification

Atlas Putty Products Company
8351 West 185th Street
Tinley Park IL 60477

Phone: 708-429-5858
Fax: 708-429-4280

Emergency Phone Number: 800-373-2727 Monday-Friday 7:30 am – 4:30 pm (central)

Trade Name: Wood Putty

Colors: Golden Oak, Walnut, Early American, Red Mahogany, Ebony, Cherry, Natural Pine, Colonial Maple, Pickled Oak, White, Chestnut, Antique Spice Brown, Coffee Brown, Medium Brown, Rosewood, Royal Mahogany, Sedona Red

Product Family: Mixture

Recommended Use: Wood finishing and repair

Section 2-Hazard 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)

Acute Toxicity:

Dermal: Category 5

Oral: Category 5

Inhalation: Category 5

Eye (Serious Damage/Irritation): Category 2B

Skin Sensitization: Category 1

GHS Pictogram:



GHS Signal Word: **DANGER**

Hazard Statement(s):

- H303: May be harmful if swallowed.
- H313: May be harmful in contact with skin.
- H317: May cause an allergic skin reaction.
- H320: Causes eye irritation.
- H333: May be harmful if inhaled.
- H335: May cause respiratory irritation.

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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.

P233: Keep container tightly closed.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash any body part in contact with product thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use outdoor only or in well-ventilated area.

P272: Contaminated work clothing should not be allowed out of workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P284: In case of inadequate ventilation wear respiratory protection.

P332: If skin irritation occurs: seek medical attention.

P351: Rinse cautiously with water for several minutes.

P301+P312: **IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P340: **IF INHALED:** Remove person to fresh air and keep comfortable for Breathing.

P302+P350: **IF ON SKIN:** Gently wash with plenty of soap and water.

P308+P313: **IF exposed or concerned:** Get medical advice/attention.

P305+P351+P338: **IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contacts lenses, if present and easy to do. Continue rinsing.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Emergency Overview: This product contains crystalline silica, which can cause lung damage and is a cancer hazard. Use ventilation, it is necessary to keep exposures below recommended exposure limits. Breathing protection required if product is sanded or abraded. May cause eye, skin, or respiratory tract irritation. KEEP OUT OF REACH OF CHILDREN. Risk of injury is dependent on the duration and level of exposure. A single exposure will not result in serious adverse effects. See Section 11 and 16 for more health information on silica and other ingredients.

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

Section 3-Composition and Information on Ingredients

Substance/Mixture: Mixture

Hazardous Components:

| <u>Common Name</u> | <u>C.A.S. No.</u> | <u>Wt. %</u> |
|--------------------|-------------------|--------------|
|--------------------|-------------------|--------------|

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| | | |
|------------------------------------|------------|----------|
| Titanium Dioxide | 13463-67-7 | 2 max |
| Crystalline Silica | 14808-60-7 | 2 max |
| Stoddard Solvent | 8052-41-3 | 0.25 max |
| Calcium Carbonate** | 1317-65-3 | 80 max |
| Carbon Black | 1333-86-4 | 0.2 max |
| Proprietary Hazardous Ingredients* | ----- | 1.0 max |

*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).

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.

Non-Hazardous Components***:

| <u>Common Name</u> | <u>C.A.S. No.</u> | <u>Wt. %</u> |
|---------------------------------|-------------------|--------------|
| Fish Oil | 68606-86-0 | 10 max |
| Talc | 14807-96-6 | 6 max |
| Other Non-Hazardous Ingredients | ----- | 5 max |

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

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: No known significant effects or critical hazards.

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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 100⁰C/212⁰F. 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 40⁰F and 90⁰F away from direct sunlight. Keep away from foodstuffs or drinking water. Observe good housekeeping practices. Keep away from incompatible materials.

Section 8- Exposure Controls and Personal Protection

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

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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.

Hazardous Component(s) with workplace control parameters:

| Common Name/ C.A.S. Number | OSHA PEL | ACGIH TLV | NIOSH IDLH |
|---|--|--|--|
| 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 % SiO ₂ +2 Respirable: 10 mg/m ³ % SiO ₂ +2 | Respirable: 0.025 mg/m ³ | REL: Respirable: 0.05 mg/m ³ |
| Titanium Dioxide 13463-67-7 | Total Dust: 15 mg/m ³ | TWA: 10 mg/m ³ | IDLH: 5000 mg/m ³ |
| Carbon Black 1333-86-4 | TWA: 3.5 mg/m ³ | TWA: 3 mg/m ³ inhalable fraction | IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH |
| Stoddard Solvent 8052-41-3 | TWA: 20000 mg/m ³ TWA: 2900 mg/m ³ | TWA: 100 ppm | IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ , 15 min TWA: 350 mg/m ³ |
| 2-Butanone Oxime 96-29-7 | AIHA WEEL: Skin Sensitizer: TWA: 10 ppm 8 hr | | |
| Talc 14807-96-6 | TWA: 20 mppcf | TWA: Respirable: 2 mg/m ³ | TWA: Respirable: 2 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:

| <u>Common Name</u> | <u>C.A.S. No.</u> |
|--------------------|-------------------|
| Talc | 14807-96-6 |
| Fish Oil | 68389-85-5 |

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.

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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 and Chemical Characteristics

| | | | |
|---|-----------------|--------------------------|--------------------|
| Physical State: | Colored Paste | Odor Threshold: | Not determined |
| Appearance | Varies in color | Odor: | Slight odor |
| Vapor Pressure: | Not determined | Flash Point: | Not determined |
| Water Solubility: | Partial | pH | 8.0-9.0 |
| Vapor Density (Air =1): | Not determined | Specific Gravity: | 1.4-1.7 (water =1) |
| Evaporation Rate (Water =1): | Not determined | 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: | Not determined | | |
| Volatile Organic Compounds (V.O.C.): | 0.4% by weight | | |

Section 10- Stability and Reactivity

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

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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 LD 50 (Rat): No data available on mixed product
Dermal LD 50 (Rabbit): No data available on mixed product
Inhalation LD 50: 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 |
| Titanium Dioxide 13463-67-7 | >5000 mg/kg (Rat) OECD 425 | >5000 mg/kg (Rabbit) | >6.8 mg/L (Rat) |
| Calcium Carbonate 1317-65-3 | 6450 mg/kg | *** | *** |
| 2-Butanone Oxime 96-29-7 | >900 mg/kg (Rat) | 0.2-2 ml/kg (Rabbit) 24 hr >1000 mg/kg (Rabbit) 24 hr | >4.83 g/L (Rat) 4 hr >10.5 mg/l (Rat) 8 hr Vapor |
| Stoddard Solvent 8052-41-3 | >5000 mg/kg (Rat) | >3000 mg/kg (Rabbit) | >5 mg/L (Rat) 4 hr Mist |

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 respiratory diseases.

Sensitization (Skin): May cause an allergic skin reaction and irritation. Once sensitized, a severe

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allergic reaction may occur when subsequently exposed to very low levels.

Sensitization (Respiratory): Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

Eye (Serious Damage/ Irritation): Causes 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: May cause irritation which can cause coughing, shortness of breath, discomfort in the chest and sneezing.

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.

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

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 |
| Titanium Dioxide 13463-67-7 | Group B2 Monograph 93[2010] | Present | Not Classified | Not Known |
| Carbon Black 1333-86-4 | Group 2B Monograph 65[1996] | Not Classified | A4-- Not Classifiable As Human Carcinogen | Not Classified |

IARC Classification:

Group 1: Human Evidence
Group 2A: Limited Human Data
Group 2B: Sufficient Animal Data

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

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

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

Section 12 – Ecological Information

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Ecotoxicity:

Possible marine 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.

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 | *** | *** |
| 2-Butanone Oxime 96-29-7 | *LC50: 48 mg/L Exposure time: 96 hr | *** | *LC50: 750 mg/L (<i>Daphnia magna</i>) Exposure time: 48 |
| Titanium Dioxide 13463-67-7 | *LC50: > 1000 mg/l (<i>Pimephales promelas</i>) Exposure Time: 96 hr; Fresh Method: Static, EPA-540/9-85-006 *Acute LC50 (96 h): > 100 mg/l (<i>Oncorhynchus mykiss</i>) Exposure Time: 96 hr; Fresh Method: Static, equivalent or similar to OECD 203 *LC50: > 10000 mg/l 5667-16 (<i>Cyprinodon variegatus</i>) Exposure Time: 96 hr; Fresh Method: Semi-static, OECD 203 | *EC50: 16 mg/l Algae: <i>Pseudokirchnerella subcapita</i> Exposure Time: 72 hr; Fresh Method: Static, EPA-600-9/78-018; ASTM Annual Book of *EC50 (72 h): > 10000 mg/l Algae: <i>Skeletonema costatum</i> Exposure Time: 72 hr; Marine Method: ISO 10253 *Microorganisms: NOEC: ≥ 100000 mg/kg <i>Hyalella azteca</i> Exposure Time: 28 day; Fresh Method: sediment dw (semi-static, ASTM 1706) *NOEC: ≥ 14989 mg/kg <i>Corophium volutator</i> Exposure Time: 10 day; Marine Method: sediment dw (semi-static, OSPARCOM guidelines (1995)) | *LC50: > 100 mg/l (<i>Daphnia magna</i>) Exposure Time: 48 hr Method: Static, equivalent or similar to OECD 202 *LC50: > 10000 mg/l (<i>Acartia tonsa</i>) Exposure Time: 48 hr; Marine Method: (ISO 14669 1999);ISO (1998)) |

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

Ingredients: No data available.

Mobility: No data available on mixed product.

Ingredients:

| Common Name | C.A.S. No. | Partition Coefficient n-octanol/water |
|------------------|------------|--|
| 2-Butanone Oxime | 96-29-7 | Log Pow 0.4 |

Section 13 – Disposal Considerations

Disposal Information: 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.

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Section 14 – Transport Information

Regulations:

| | <u>DOT</u> <u>Classification</u> | <u>IATA</u> | <u>IMDG</u> |
|----------------------------|-------------------------------------|----------------|----------------|
| 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 MARPOL73/78 and the IBC Code:

Not applicable for product as supplied.

Special Precautions: No information available

Section 15- Hazard Classification

Emergency Planning and Community Right to Know:

CERCLA:

Chemical Name CAS Number

None

SARA TITLE III:

Section 302 Extremely Hazard Substances:

Chemical Name CAS Number

None

Section 311/312 Hazards Category:

| | |
|----------------|-----|
| Acute Health | Yes |
| Chronic Health | Yes |
| Fire | No |
| Reactive | No |

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Sudden Release of Pressure No

Section 313:

| <u>Chemical Name</u> | <u>CAS Number</u> |
|----------------------|-------------------|
| Raw Umber | 12713-03-0 |

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

California Proposition 65: This product contains chemical(s) known to the State of California to cause cancer or reproductive toxicity. The California Safe Drinking Water and Toxic Enforcement of 1986 requires that clear and reasonable warning be given prior to exposing any person to this chemical.

| <u>Chemical Name</u> | <u>CAS Number</u> |
|--------------------------------------|-------------------|
| Crystalline Silica | 14808-60-7 |
| Carbon Black (airborne, unbound) | 1333-86-4 |
| Titanium Dioxide (airborne, unbound) | 13463-67-7 |
| Raw Umber | 12713-03-0 |

State Right-To-Know:

| <u>Chemical</u> | <u>CAS Number</u> | <u>State(s)</u> |
|--------------------|-------------------|---|
| Calcium carbonate | 1317-65-3 | New Jersey, Pennsylvania, Massachusetts |
| Crystalline Silica | 14808-60-7 | New Jersey, Massachusetts, Pennsylvania |
| Titanium Dioxide | 13463-67-7 | New Jersey*, Pennsylvania |
| Talc | 14807-96-6 | New Jersey*, Illinois, Massachusetts, Pennsylvania, Florida |
| Stoddard Solvent | 8052-41-3 | New Jersey*, Pennsylvania, Massachusetts |

Chemical Inventories:

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

DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

Section 16 – Other Information

HMIS Ratings:

Health: 2 Flammability: 1 Reactivity: 0 Personal Protection: E

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NFPA Ratings:

Health: 2 Flammability: 1 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) **EC_x** = Concentration associated with x% response **EHS** = Extremely Hazardous Substance **EINECS/ELINCS** = European Inventory of Existing Commercial Chemical Substances/European List of Notified Chemical Substances **EL_x** = Loading rate associated with x% response **EmS** = Emergency Schedule **ENCS** = Existing and New Chemical Substances (Japan) **ErC_x** = 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** = International Convention for the Prevention of Pollution from Ships **MSHA** = Mine Safety and Health Administration **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 **TCSI** = 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:

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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

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>

Prepared by:

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

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