

Safety Data Sheet

Material Name: Creosote Pressure Treated Wood

SDS ID: STE-006

Section 1 - IDENTIFICATION

Material Name: Creosote-Treated Wood

Trade Names/Synonyms

Creosote Treated Wood; Cross-ties; Switch ties; Pilings

Recommended Use

Industrial wood products including; Railroad ties; Switch ties; Poles and Marine Pilings

Restrictions on Use

Creosote pressure treated wood is treated with a Restricted Use Pesticide regulated under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), and must be used for applications consistent with the product label and the American Wood Protection Association (AWPA) Use Category System as set forth in the most current edition.

Manufacturer Information

Stella-Jones Corporation
Park West One, Suite 500
1000 Cliff Mine Road
Pittsburgh, PA 15275
Phone: 412-325-0202

McFarland Cascade Holdings, Inc.
1640 East Marc
Tacoma, Washington 98421
Phone: 253-572-3033

CHEMTREC®: 800-424-9300 (Intl. 703-527-3887)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with 29 CFR 1910.1200

Combustible dust

Skin Corrosion / Irritation, Category 2

Eye Damage / Irritation, Category 2A

Skin sensitizer, Category 1

Respiratory sensitizer, Category 1

Carcinogenicity, Category 1A

Specific Target Organ Toxicity - Single Exposure, Category 3 (central nervous system and respiratory system)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statement(s)

May form combustible dust concentrations in air

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause cancer.

Safety Data Sheet

Material Name: Creosote-Treated Wood

SDS ID: STE-006

May cause respiratory irritation.

Precautionary Statement(s)

Prevention

Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. In case of inadequate ventilation wear respiratory protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.

Response

IF EXPOSED OR CONCERNED: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. Specific treatment may be needed, see first aid section of Safety Data Sheet. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN 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.

Storage

Store in a well-ventilated place. Store locked up.

Disposal

Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified

No information is available.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

| CAS | Component | Percent |
|---------------|--------------------------|---------|
| Not Available | Wood/ Wood Dust | 90 |
| 8001-58-9 | Creosote | 5.6 |
| 64741-59-9 | Petroleum Distillate 120 | 3.8 |
| 8007-45-2 | Coal tar | 0.5 |
| 7732-18-5 | Water | 0.1 |

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Wood dusts- hard wood, Wood dust, all soft and hard woods, Wood dusts (all other wood dusts), Wood dusts, birch, mahogany, teak, walnut, Creosotes.

* * *Section 4 - FIRST AID MEASURES* * *

Description of Necessary Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. DO NOT rub until skin is free of sawdust and preservative material. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eyes

Flush eyes with plenty of water for at least 15 minutes. DO NOT rub eyes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

Safety Data Sheet

Material Name: Creosote-Treated Wood

SDS ID: STE-006

Ingestion

If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute

Respiratory tract irritation, skin irritation, eye irritation, allergic reactions, central nervous system depression

Delayed

Allergic reactions, blood damage, kidney damage, liver damage, lung damage, cancer

Indication of Immediate Medical Attention and Special Treatment

For inhalation, consider oxygen.

* * *Section 5 - FIRE FIGHTING MEASURES* * *

Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

Large fires: Use water spray, fog or regular foam.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Specific Hazards Arising from the Chemical

Slight fire hazard. Dust/air mixtures may ignite or explode.

Hazardous Combustion Products

Combustion: aliphatic aldehydes, oxides of carbon, oxides of nitrogen, polycyclic aromatic hydrocarbons (PAHs), and/or resin acids.

Fire Fighting Measures

Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Use extinguishing agents appropriate for surrounding fire.

Special Protective Equipment and Precautions for Firefighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

* * *Section 6 - ACCIDENTAL RELEASE MEASURES* * *

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

Collect debris and used material in appropriate container for disposal. Avoid generating dust. Clean up residue with a high-efficiency particulate filter vacuum.

* * *Section 7 - HANDLING AND STORAGE* * *

Precautions for Safe Handling

Follow good hygienic and housekeeping practices. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Clean-up areas where wood dust settles to avoid excessive accumulation of this combustible material. Minimize practices that generate airborne dust. Use methods to minimize dust. Use only outdoors or in a well-ventilated area. When possible, conduct dust-generating activities outdoors to avoid indoor accumulations of airborne dust from treated wood. Avoid prolonged or repeated skin contact with this material. Do not breathe dust. In case of inadequate ventilation wear respiratory protection. When handling treated wood, wear washable or disposable coveralls or long-sleeved shirt and long pants, chemical resistant gloves, and socks plus industrial grade safety boots with chemical resistant soles. Wear protective eye/face protection. To reduce sun sensitivity, a sun-blocking lotion (SPF15+) can also be applied. Wash thoroughly after skin contact, before eating, drinking, chewing gum, using

Safety Data Sheet

Material Name: Creosote-Treated Wood

SDS ID: STE-006

tobacco products or using restrooms. Remove and wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

Conditions for Safe Storage, including any Incompatibilities

Store in accordance with all current regulations and standards. Store outdoors. Store creosote treated wood off of the ground, protected from weather. Keep in a cool, dry place away from open flame. Treated wood is intended for exterior/outdoor uses only.

Incompatibilities: Avoid acids and oxidizing materials.

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

Component Exposure Limits

Oak and various hardwoods (Not Available)

ACGIH: 1 mg/m³ TWA (inhalable fraction, related to Wood dusts (all other wood dusts))

NIOSH: 1 mg/m³ TWA (related to Wood dust, all soft and hard woods)

OSHA (vacated): 5 mg/m³ TWA (related to Wood dust, all soft and hard woods)

10 mg/m³ STEL (related to Wood dust, all soft and hard woods)

Mexico: 1 mg/m³ TWA LMPE-PPT (related to Wood dusts-hard wood)

Appropriate Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Wear safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing. Wear washable or disposable coveralls or long-sleeved shirt and long pants. Wear socks plus industrial grade safety boots with chemical resistant soles.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Respiratory Protection

If the applicable TLVs and/or PELs are exceeded, use canister or cartridge respirators, which are MSHA/NIOSH-approved, with high-efficiency particulate filters.

* * *Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

| | | | |
|--------------------------|-----------------|--------------------------------------|---|
| Physical State: | Solid | Appearance: | Brown to black rail ties and cross ties |
| Color: | Brown to black. | Physical Form: | Solid wood. |
| Odor: | Tar odor. | Odor Threshold: | Not available |
| pH: | Not applicable | Melting Point: | Not available |
| Boiling Point: | Not applicable | Flash Point: | Not applicable |
| Decomposition: | Not available | Evaporation Rate: | Not applicable |
| Vapor Pressure: | Not applicable | Vapor Density (air = 1): | Not applicable |
| Density: | Not available | Specific Gravity (water = 1): | Not available |
| Water Solubility: | Not available | Coeff. Water/Oil Dist: | Not available |
| Viscosity: | Not applicable | VOC: | Not applicable |

Other Property Information

No additional information is available.

Safety Data Sheet

Material Name: Creosote-Treated Wood

SDS ID: STE-006

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Avoid acids and oxidizing materials.

Hazardous Decomposition

Combustion: Aliphatic aldehydes, oxides of carbon, oxides of nitrogen, polycyclic aromatic hydrocarbons (PAHs), and/or resin acids.

Section 11 - TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Creosote (8001-58-9)

Inhalation LC50 Rat >5 mg/L 4 h; Skin LD50 Rabbit >2000mg/kg; Oral LD50 Rat 2197 mg/kg

Petroleum Distillate 120 (64741-59-9)

Inhalation LC50 Rat 3400 mg/m³ 4 h; Inhalation LC50 Rat 4.65 mg/L 4 h; Oral LD50 Rat 3200 mg/kg; Dermal LD50 Rat >2000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Information on Likely Routes of Exposure

Inhalation

Irritation, allergic reactions, nausea, vomiting, headache, nosebleed, loss of appetite, chest pain, difficulty breathing, drowsiness, headache, dilated pupils, visual disturbances, irregular heartbeat, lung damage, liver damage, kidney damage, nasal/sinus cancer

Ingestion

Irritation, nausea, vomiting, changes in body temperature, difficulty breathing, irregular heartbeat, headache, dizziness, bluish skin color, cardiovascular collapse, convulsions, loss of appetite, drowsiness, visual disturbances

Skin Contact

Irritation, skin discoloration, skin disorders, sensitivity to sunlight, changes in body temperature, nausea, vomiting, headache, difficulty breathing, irregular heartbeat, bluish skin color, convulsions, allergic reactions, visual disturbances, kidney damage, dermatitis, lung cancer, skin cancer

Eye Contact

Irritation, sensitivity to sunlight, eye damage

Immediate Effects

Respiratory tract irritation, skin irritation, eye irritation, allergic reactions, central nervous system depression

Delayed Effects

Allergic reactions, blood damage, kidney damage, liver damage, lung damage, cancer

Safety Data Sheet

Material Name: Creosote-Treated Wood

SDS ID: STE-006

Medical Conditions Aggravated by Exposure

Medical conditions include respiratory disorders, skin disorders, and/or allergies.

Irritation/Corrosivity Data

Respiratory tract irritation, skin irritation, eye irritation

Respiratory Sensitization

Yes

Dermal Sensitization

Yes

Carcinogenicity

Known Human Carcinogen

Component Carcinogenicity

Oak and various hardwoods (Not Available)

ACGIH: A1 - Confirmed Human Carcinogen (related to Wood dusts-hard wood)

IARC: Monograph 100C [2012]; Monograph 62 [1995] (Group 1 (carcinogenic to humans), related to Wood dust, all soft and hard woods)

NTP: Known Human Carcinogen (related to Wood dust, all soft and hard woods)

Creosote (8001-58-9)

IARC: Monograph 92 [2010]; Supplement 7 [1987]; Monograph 35 [1985] (Group 2A (probably carcinogenic to humans))

Coal tar (8007-45-2)

IARC: Supplement 7 [1987] (see Coal-tar distillation RR-56753-3 in Monograph 100F); Monograph 35 [1985] (Group 1 (carcinogenic to humans))

NTP: Known Human Carcinogen

Mutagenic Data

No data available for the mixture.

Reproductive Effects Data

No data available for the mixture.

Specific Target Organ Toxicity - Single Exposure

Respiratory system, central nervous system

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Aspiration Hazard

Not expected to be an aspiration hazard.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Ecotoxicity

Component Analysis - Aquatic Toxicity

Creosote (8001-58-9)

Fish: 96 Hr LC50 Brachydanio rerio: 2.6 - 6.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.57 mg/L [static]

Invertebrate: 48 Hr EC50 Daphnia magna: 1.04 mg/L; 48 Hr EC50 Daphnia magna: 0.065 - 0.082 mg/L [Static]

Petroleum Distillate 120 (64741-59-9)

Fish: 96 Hr LC50 Brachydanio rerio: 7.3 mg/L [semi-static]

Persistence and Degradability

No data available for the mixture.

Bioaccumulative Potential

No data available for the mixture.

Safety Data Sheet

Material Name: Creosote-Treated Wood

SDS ID: STE-006

Mobility

No data available for the mixture.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in an approved landfill according to Federal, State, Provincial, and local regulations.

Waste Numbers

Creosote (8001-58-9)

RCRA: waste number U051

Section 14 - TRANSPORT INFORMATION

US DOT Information

Not regulated.

US DOT Reportable Quantities

Creosote (8001-58-9)

1 lbs RQ; 0.454 kg RQ

TDG Information

Not regulated.

Section 15 - REGULATORY INFORMATION

Component Analysis

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Creosote (8001-58-9)

SARA 313: 0.1 % de minimis concentration

CERCLA: 1 lb final RQ; 0.454 kg final RQ

Coal tar (8007-45-2)

TSCA 12b: Section 5, 0.1 % de minimis concentration

SARA 311/312 Hazardous Categories

Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactive: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA |
|---|---------------|-----|-----|------|------|------|
| Oak and various hardwoods (¹related to: Wood dust, all soft and hard woods) (²related to: Wood dusts-hard wood) | Not Available | No | No | Yes¹ | Yes¹ | Yes² |
| Creosote (¹related to: Creosotes) | 8001-58-9 | Yes | Yes | Yes¹ | Yes | Yes |
| Coal tar | 8007-45-2 | Yes | Yes | Yes | Yes | Yes |

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Canada

WHMIS CLASSIFICATION: D2A, D2B.

Safety Data Sheet

Material Name: Creosote-Treated Wood

SDS ID: STE-006

Component Analysis - Inventory

| Component | CAS | US | CA |
|--------------------------|------------|-----|-----|
| Creosote | 8001-58-9 | Yes | DSL |
| Petroleum Distillate 120 | 64741-59-9 | Yes | DSL |
| Coal tar | 8007-45-2 | Yes | DSL |
| Water | 7732-18-5 | Yes | DSL |

* * *Section 16 - OTHER INFORMATION* * *

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CPR - Controlled Products Regulations; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IARC - International Agency for Research on Cancer; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Read the Material Safety Data Sheet before handling product.

End of Sheet STE-006