



## Safety Data Sheet

Material Name: Creosote-Boron Treated Wood

SDS ID: STE-003

### \* \* \*Section 1 - IDENTIFICATION\* \* \*

Material Name: Creosote-Boron Treated Wood

#### Trade Names/Synonyms

Rail ties; Cross ties; Switch ties

#### Recommended Use

Railroad ties

#### Restrictions on Use

Creosote-Boron Treated Wood has been treated with a FIFRA Restricted Use Pesticide, and must be used only in applications consistent with the American Wood Protection Association (AWPA) Use Category System as set forth in the most current edition and the product label.

#### Manufacturer Information

Stella-Jones Corporation

McFarland Cascade Holdings, Inc.

Two Gateway Center

1640 East Marc

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

603 Stanwix Street, Suite 1000

Tacoma, Washington 98421

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### \* \* \*Section 2 - HAZARDS IDENTIFICATION\* \* \*

Classification in accordance with 29 CFR 1910.1200

Combustible dust

Skin Corrosion / Irritation, Category 2

Eye Damage / Irritation, Category 2A

Sensitization - Respiratory, Category 1

Sensitization - Skin, Category 1

Carcinogenicity, Category 1A

Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory tract irritation)

#### Symbol(s)



#### Signal Word

DANGER

#### Hazard Statement(s)

May form combustible dust concentrations in air.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause cancer.

May cause respiratory irritation.

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## Precautionary Statement(s)

### Prevention

Wear protective gloves/clothing and eye/face protection. Do not breathe dust or vapors. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

### Response

IF EXPOSED OR CONCERNED: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs, seek 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. Keep container tightly closed. Store locked up.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Hazard(s) Not Otherwise Classified

No additional information is available.

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

CAS	Component	Percent
Not Available	Creosote-boron treated wood	100
Not Available	Oak and various hardwoods	87-88
8001-58-9	Creosote	<12
Proprietary	Boron	1-10

### 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. 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. Then get immediate medical attention.

#### Ingestion

If a large amount is swallowed, get medical attention.

### Most Important Symptoms/Effects

#### Acute

Respiratory tract irritation, skin irritation, eye irritation, respiratory tract and skin sensitization

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## Delayed

Cancer

## Indication of Immediate Medical Attention and Special Treatment

Treat symptomatically and supportively.

## \* \* \*Section 5 - FIRE FIGHTING MEASURES\* \* \*

### Suitable Extinguishing Media

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

### Unsuitable Extinguishing Media

None known.

### Specific Hazards Arising from the Chemical

Combustible dust. Dust/air mixtures may ignite or explode. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### Hazardous Combustion Products

**Combustion:** Decomposition products include aliphatic aldehydes, oxides of carbon, oxides of nitrogen, oxides of boron, polycyclic aromatic hydrocarbons (PAHs), and 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 fire-fighting 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.

### 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. Clean-up areas where wood dust settles to avoid excessive accumulation of this combustible material. Minimize practices that generate airborne dust. Avoid repeated or prolonged breathing of treated wood dust. Use methods to minimize dust. 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. 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. To reduce sun sensitivity, a sun-blocking lotion (SPF15+) can also be applied. Wash thoroughly after skin contact, before eating, drinking, chewing gum, using tobacco products or using restrooms.

Remove and wash contaminated clothing before reuse.

### Conditions for Safe Storage, including any Incompatibilities

Store in accordance with all current regulations and standards. Store creosote-boron treated wood off of the ground, protected from weather. While at the job site, cover with plastic tarps, allowing for adequate air circulation. 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.

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

### Component Exposure Limits

#### Oak and various hardwoods (Not Available)

ACGIH: 1 mg/m<sup>3</sup> TWA (inhalable fraction, related to Wood dusts (all other wood dusts))

NIOSH: 1 mg/m<sup>3</sup> TWA (related to Wood dust, all soft and hard woods)

OSHA (vacated): 5 mg/m<sup>3</sup> TWA (related to Wood dust, all soft and hard woods)

10 mg/m<sup>3</sup> STEL (related to Wood dust, all soft and hard woods)

Mexico: 1 mg/m<sup>3</sup> TWA LMPE-PPT (related to Wood dusts-hard wood)

#### Coal tar pitches (65996-93-2)

ACGIH: 0.2 mg/m<sup>3</sup> TWA (as benzene soluble aerosol)

NIOSH: 0.1 mg/m<sup>3</sup> TWA (Cyclohexane-extractable fraction)

80 mg/m<sup>3</sup> IDLH

OSHA (US): 0.2 mg/m<sup>3</sup> TWA (benzene soluble fraction)

OSHA (vacated): 0.2 mg/m<sup>3</sup> TWA (benzene soluble fraction)

Mexico: 0.002 mg/m<sup>3</sup> TWA LMPE-PPT; 0.02 mg/m<sup>3</sup> TWA LMPE-PPT (as Particulate polycyclic aromatic hydrocarbons)

0.015 ppm STEL [LMPE-CT]; 0.03 mg/m<sup>3</sup> STEL [LMPE-CT]

### Appropriate Engineering Controls

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. 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
Color:	Brown to black	Physical Form:	Solid wood
Odor:	Tar odor	Odor Threshold:	Not available
pH:	Not applicable	Melting Point:	Not applicable
Boiling Point:	Not applicable	Flash Point:	Not applicable
Decomposition:	Not applicable	Vapor Pressure:	Not applicable
Vapor Density (air = 1):	Not applicable	Density:	Not applicable
Specific Gravity (water = 1):	Not available	Water Solubility:	Not applicable
Coeff. Water/Oil Dist:	Not available	Viscosity:	Not applicable
VOC:	Not applicable		

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## Other Property Information

### \* \* \*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:** Decomposition products include aliphatic aldehydes, oxides of carbon, oxides of nitrogen, oxides of boron, polycyclic aromatic hydrocarbons (PAHs), and 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)**

Oral LD50 Rat >2197 mg/kg

#### Information on Likely Routes of Exposure

##### Inhalation

May cause irritation, difficulty breathing, headache, drowsiness, dizziness, and lung damage., May cause sensitization.

##### Ingestion

May cause vomiting, drowsiness, headache, and dizziness.

##### Skin Contact

May cause irritation. May cause sensitization.

##### Eye Contact

May cause irritation and tearing.

##### Immediate Effects

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

##### Delayed Effects

Blood damage, kidney damage, liver damage, lung damage, respiratory system effects

##### 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

Component data indicate the substance is sensitizing.

##### Dermal Sensitization

Component data indicate the substance is sensitizing.

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## Carcinogenicity

### 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))

## Mutagenic Data

No information available for the product.

## Reproductive Effects Data

No information available for the product.

## Specific Target Organ Toxicity - Single Exposure

Respiratory system

## Specific Target Organ Toxicity - Repeated Exposure

Blood, kidneys, liver, lungs, respiratory system

## Aspiration Hazard

Not expected to be an aspiration hazard.

## \* \* \*Section 12 - ECOLOGICAL INFORMATION\* \* \*

## Ecotoxicity

Toxic to aquatic organisms.

## 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]

## Persistence and Degradability

No information available for the product.

## Bioaccumulative Potential

No information available for the product.

## Mobility

No information available for the product.

## \* \* \*Section 13 - DISPOSAL CONSIDERATIONS\* \* \*

## Disposal Methods

Dispose of in an approved landfill according to Federal, State, Provincial, and local regulations. In most states, creosote-boron treated wood may be disposed of in a RCRA Subtitle D (solid waste) landfill.

## Waste Numbers

#### Creosote (8001-58-9)

RCRA: Waste number U051

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## \* \* \*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.

### Component Marine Pollutants (IMDG)

This material contains one or more of the following chemicals required by IMDG to be identified as marine pollutants.

Creosote (8001-58-9)

IMDG regulated marine pollutant (Listed in the index)

## \* \* \*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

### 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 ('related to: Wood dust, all soft and hard woods) (?related to: Wood dusts-hard wood)	Not Available	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>2</sup>
Creosote	8001-58-9	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

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**WHMIS CLASSIFICATION:** Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

### Component Analysis - Inventory

Component	CAS	US	CA
Creosote	8001-58-9	Yes	DSL
Coal tar pitches	65996-93-2	Yes	DSL

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## \* \* \*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; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; 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 Safety Data Sheet before handling product.

### SDS History

Revision 2.0000, 28 May 2015: Updated to OSHA GHS format.

End of Sheet STE-003

# *Consumer Information Sheet*

## **Creosote Pressure-Treated Wood**

### **CONSUMER INFORMATION\***

This wood has been preserved by pressure treatment with a U. S. Environmental Protection Agency (EPA)-registered anti-microbial pesticide product containing creosote. Creosote pressure-treated wood provides protection against attack by fungi, insects, and marine borers.

Creosote remains in the pressure-treated wood for a long time. Prolonged or repeated exposure to creosote may present certain hazards. Therefore, the following precautions should be taken both when handling creosote-treated wood and determining where to use it.

This Consumer Information Sheet is not meant to replace the Material Safety Data Sheet (MSDS) for creosote pressure-treated wood. The MSDS must be read and understood before handling creosote pressure-treated Wood

### **Use Site Precautions for Creosote-Treated Wood**

Creosote-treated wood commodities must only be used for those applications included in the American Wood Protection Association (AWPA) use category standards as set forth in the most current edition of the AWPA Book of Standards. For more information, contact the treater and/or the AWPA.

Creosote-treated wood is for exterior/outdoor uses only.

Creosote-treated wood should not be used where it will be in frequent or prolonged contact with skin.

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\* This Consumer Information Sheet is being distributed with creosote pressure-treated wood as part of the wood treating industry's voluntary consumer awareness program, which EPA approved in 1986. Since that time, EPA has completed a comprehensive reregistration review of creosote, creosote registrants have voluntarily eliminated all non-pressure treatment uses of creosote, and certain American Wood Protection Association standards have changed (for example, the elimination of creosote-treated wood block flooring). This updated Consumer Information Sheet reflects these developments.

Do not use creosote-treated wood for farrowing or brooding facilities.

Do not use creosote-treated wood when the preservative may become a component of animal feed, such as structures used for storing silage food for cattle.

Do not use creosote-treated wood where there may be direct contact with domestic animals or livestock which may crib (bite) or lick the wood.

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~~Do not use creosote-treated wood for cutting boards, countertops, and construction materials for beehives.~~

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Do not use creosote-treated wood where it may come in direct or indirect contact with public drinking water for human and domestic animals or livestock, except for uses involving incidental contact such as docks and bridges.

Although generally not recommended, if creosote-treated wood is to be coated or sealed, the wood must be clean and dry before applying the coating material. The only recommended coatings are a water-based pigmented emulsion and alcohol-based shellac products.

### **Consumer Handling Precautions for Creosote-Treated Wood**

Dispose of creosote-treated wood by ordinary trash collection services. Creosote-treated wood should not be burned in open fires or in stoves, fireplaces, or residential boilers. Creosote treated wood may be burned only in commercial or industrial incinerators or boilers in accordance with Federal and State regulations.

Avoid frequent or prolonged inhalation of sawdust from creosote-treated wood. When sawing and machining (includes, but not limited to drilling and adz cutting) the wood, wear a dust mask. Whenever possible these machining operations should be performed outdoors to avoid indoor accumulation of airborne sawdust from the creosote-treated wood. When power-sawing and machining, wear goggles to protect eyes from flying particles.

Avoid frequent or prolonged skin contact with creosote-treated wood. When handling the treated wood, wear long-sleeved shirts and long pants and use gloves rated as chemical resistant by the manufacturer.

After working with creosote-treated wood, and before eating, drinking and use of tobacco products, wash exposed areas thoroughly.

If oily preservative or sawdust accumulates on clothes, launder before reuse. Wash work clothes separately from other household clothing.

## Creosote-Boron Treated Wood GHS Label



### DANGER

#### Hazard Statement(s)

- May form combustible dust concentrations in air.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- May cause cancer.
- May cause respiratory irritation.

#### Precautionary Statement(s)

##### Prevention

Wear protective gloves/clothing and eye/face protection. Do not breathe dust or vapors. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

##### Response

IF EXPOSED OR CONCERNED: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs, seek 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.

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