



## Material Safety Data Sheet

Material Name: One-Step Wood Preservative

SDS ID: STE-012

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

**Material Name:** One-Step Wood Preservative

**Trade Names/Synonyms**

BORIC ACID; EPA Registration No. 73408-4

**Chemical Family**

BORATE

**Recommended Use**

For industrial use only.

**Restrictions on Use**

None known.

**Manufacturer Information**

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

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

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

**Classification in accordance with 29 CFR 1910.1200**

Toxic to Reproduction, Category 1B

**GHS LABEL ELEMENTS**

**Symbol(s)**



**Signal Word**

DANGER

**Hazard Statement(s)**

May damage fertility or the unborn child

**Precautionary Statement(s)**

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

IF exposed or concerned: Get medical advice/attention.

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## Storage

Store locked up.

## Disposal

Dispose in accordance with all applicable regulations.

## Hazard(s) Not Otherwise Classified

No information available.

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

CAS	Component	Percent
10043-35-3	Boric acid	100

### \*\*\*Section 4 - FIRST AID MEASURES\*\*\*

## Description of Necessary Measures

### Inhalation

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

### Skin

IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

### Eyes

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

### Ingestion

If swallowed, drink plenty of water, do NOT induce vomiting. Call a poison control center or doctor immediately for treatment advice. Do not give anything by mouth to an unconscious person.

## Most Important Symptoms/Effects

### Acute

No effects expected.

### Delayed

reproductive effects

## Indication of Immediate Medical Attention and Special Treatment

No information available.

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

## Suitable Extinguishing Media

Not applicable. Use extinguishing agents appropriate for surrounding fire.

## Unsuitable Extinguishing Media

Not applicable.

## Specific Hazards Arising from the Chemical

Not flammable and not combustible.

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## Hazardous Comustion Products

**Combustion:** No data available.

## Fire Fighting Measures

In case of fire, use media appropriate for extinction. Move container from fire area if it can be done without risk. Use water to cool fire-exposed containers, structures and to protect personnel.

## 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

**AIR RELEASE:** Prevent dust cloud. **WATER RELEASE:** To prevent liquid from flowing into drains, completely contain spilled material with dikes, sandbags, etc. Collect spilled material in appropriate container for disposal. **SOIL RELEASE:** Shovel dry material into suitable container. Avoid dust generation and accumulation. Collect spilled material in appropriate container for reuse or disposal. Flush contaminated areas with water. **OTHER:** Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry.

## \* \* \*Section 7 - HANDLING AND STORAGE\* \* \*

## Precautions for Safe Handling

Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection.

## Conditions for Safe Storage, including any Incompatibilities

Store in a clean, dry place. Store in a well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from food, drink and animal feed. Keep away from incompatible materials. Protect from physical damage. Store locked up.

**Incompatibilities** boric acid reacts with strong reducing agents to form hydrogen gas. Incompatible materials include Metal Halide, alkali metals.

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

## Component Exposure Limits

**Boric acid (10043-35-3)**

**ACGIH:** 2 mg/m<sup>3</sup> TWA (inhalable fraction)

6 mg/m<sup>3</sup> STEL (inhalable fraction)

## Appropriate Engineering Controls

Provide local exhaust ventilation system when used in enclosed or confined spaces. Ensure compliance with applicable exposure limits.

## Individual Protection Measures, such as Personal Protective Equipment

### Eyes/Face Protection

Wear safety glasses with side shields.

### Skin Protection

butyl rubber, neoprene, nitrile, Viton(R)

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## Glove Recommendations

Wear impervious gloves.

## Respiratory Protection

Any air-purifying full-facepiece respirator equipped with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

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

<b>Physical State:</b>	Solid	<b>Appearance:</b>	white granules
<b>Color:</b>	clear, white	<b>Physical Form:</b>	granules or powder
<b>Odor:</b>	none	<b>Odor Threshold:</b>	Not available
<b>pH:</b>	5.1	<b>Melting Point:</b>	171 °C /339°F
<b>Boiling Point:</b>	Not applicable	<b>Flash Point:</b>	Not available
<b>Evaporation Rate:</b>	Not available	<b>LEL:</b>	Not available
<b>UEL:</b>	Not available	<b>Vapor Pressure:</b>	Negligible
<b>Vapor Density (air = 1):</b>	Not applicable	<b>Density:</b>	12.495
<b>Specific Gravity (water = 1):</b>	1.5	<b>Water Solubility:</b>	4.89 mg/100ml
<b>Coeff. Water/Oil Dist:</b>	Not available	<b>Viscosity:</b>	Not available
<b>VOC:</b>	Not available	<b>Volatility:</b>	Not volatile
<b>Molecular Weight:</b>	61.83		

## Other Property Information

No additional information is available.

## \* \* \*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 excessive heat and ignition sources.

### Incompatible Materials

boric acid reacts with strong reducing agents to form hydrogen gas. Incompatible materials include Metal Halide, alkali metals.

### Hazardous Decomposition

**Combustion:** No data available.

## \* \* \*Section 11 - TOXICOLOGICAL INFORMATION\* \* \*

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

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## Product Toxicity Data

2,660-4,100 mg/kg-rat Oral LD50; >2,000 mg/kg-rabbit Dermal LD50; inhalation: >2.03 mg/L rabbit LC50 (4 hour(s))

## Information on Likely Routes of Exposure

### Inhalation

mechanical irritation

### Ingestion

irritation, nausea, vomiting, diarrhea

### Skin Contact

No effects expected.

### Eye Contact

mechanical irritation

### Immediate Effects

No effects expected.

### Delayed Effects

reproductive effects

### Medical Conditions Aggravated by Exposure

No data available.

### Respiratory Sensitization

No data available.

### Dermal Sensitization

Human testing indicates the substance is not sensitizing.

### Carcinogenicity

Generally not considered to be carcinogenic.

### Component Carcinogenicity

#### Boric acid (10043-35-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

### Mutagenic Data

Generally not considered to be mutagenic.

### Reproductive Effects Data

Animal tests have produced developmental effects at maternally toxic levels.

### Specific Target Organ Toxicity - Single Exposure

None known.

### Specific Target Organ Toxicity - Repeated Exposure

None known.

### Aspiration Hazard

No data available.

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

### Component Analysis - Aquatic Toxicity

#### Boric acid (10043-35-3)

Fish: 72 Hr LC50 Carassius auratus: 1020 mg/L [flow-through]

Invertebrate: 48 Hr EC50 Daphnia magna: 115 - 153 mg/L

### Persistence and Degradability

Biodegradable.

### Bioaccumulative Potential

Solid components have low bioaccumulation potential.

### Mobility

No data available.

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

### Disposal Methods

Dispose in accordance with all applicable regulations.

### Waste Numbers

There are no applicable U.S. EPA listed waste codes (40 CFR 261 Subpart D) for this product.

## \*\*\*Section 14 - TRANSPORT INFORMATION\*\*\*

### US DOT Information

Not regulated as a hazardous material.

### TDG Information

Not regulated as dangerous goods.

## \*\*\*Section 15 - REGULATORY INFORMATION\*\*\*

### Component Analysis

#### U.S. Federal Regulations

None of this product's components are listed 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), or require an OSHA process safety plan.

#### SARA 311/312 Hazardous Categories

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

#### U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

#### Canada

WHMIS CLASSIFICATION: D2A - Reproductive toxic effects

#### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL.

#### Boric acid (10043-35-3)

1 %

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## Component Analysis - Inventory

Component	CAS	US	CA
	10043-35-3	Yes	DSL

## \* \* \*Section 16 - OTHER INFORMATION\* \* \*

**NFPA Ratings: Health: 0 Fire: 0 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; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse. Read Material Safety Data Sheet Before Using Product. Read the Material Safety Data Sheet before handling product.

End of Sheet STE-012