

TIMBER SPECIALTIES MATERIAL SAFETY DATA SHEET

K-33[®] CCA Treated Wood

SECTION I

MSDS NUMBER:	244-Tim
MSDS CODE:	Tim
SYNONYMS:	N/A
MANUFACTURED BY:	Licensees/Customers of Timber Specialties Co.
DIVISION:	Wood Preserving Division
REGISTRATION NUMBER:	N/A
EMERGENCY PHONE:	(905) 854-2244
OTHER CALLS:	(905) 854-2244
ADDRESS:	35 Crawford Crescent, PO Box 520, Campbellville, Ontario L0P 1B0
MSDS PREPARED BY:	Teri Muchow
DATE PREPARED:	June 15, 1990
DATE LAST REVISED:	August 19, 2014 (replaces April 11, 2013)

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

TRADE NAME: K-33 [®] CCA – Treated Wood INGREDIENT NAME	CAS	OSHA PEL	ACGIH TLV	OTHER	Percent by Weight
Arsenic Pentoxide	1303-28-2	0.01 mg/M ³ as As	0.01 mg/M ³ as As	N/A	See chart below.
Copper Oxide	1317-39-1	1.0 mg/M ³ as Cu	1.0 mg/M ³ as Cu	N/A	See chart below.
Trivalent Chromium	1308-38-9	1.0 mg/M ³ as Cr	0.5 mg/M ³ as Cr	N/A	See chart below.
Wood Dust (if machined)	N/A	5 mg/M ³	5 mg/M ³	N/A	See chart below.

PERCENTAGE OF HAZARDOUS INGREDIENTS COMPONENT %

	.25 pcf	.4 pcf	.6 pcf	1.0 pcf	2.5 pcf
Arsenic Pentoxide	.3 %	.4 %	.6 %	1 %	2.6 %
Copper Oxide	.15 %	.2 %	.3 %	.6 %	1.3 %
Chromium Trioxide	.4 %	.6 %	.9 %	1.4 %	3.3 %
Wood Dust*	84.28%	83.98%	83.47%	82.45%	78.88%

*This represents the maximum amount of wood dust that could be generated if the wood was completely machined.

ADDITIONAL INFORMATION

States and territories operating their own OSHA programs may have more protective PEL levels. Contact your state agency to determine the status of the PELs in your state.

Based on the applicable retention and a wood density of 32 pcf., the above values may vary due to the variability of treatment and the natural variability of wood.

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SECTION III - PHYSICAL DATA

BOILING POINT	MELTING POINT	FREEZING POINT	SPECIFIC GRAVITY (H ₂ O = 1)	PERCENT VOLATILE BY VOLUME	THEORETICAL VOC CONTENT (PERCENT OF WEIGHT)
N/A	N/A	N/A	As Wood	N/A	N/A
WEIGHT PER GALLON	pH:	VAPOR PRESSURE	VAPOR DENSITY	DENSITY	EVAPORATION RATE BASIS (N-BUAC) = 1
N/A	N/A	N/A	N/A	N/A	N/A

Chemical Characteristics Continued -	
SOLUBILITY IN WATER: Highly Insoluble	REACTIVITY IN WATER: N/A
ODOR THRESHOLD: No odor	COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Applicable
APPEARANCE:	Green-yellow wood

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	METHOD	FLAMMABLE LIMITS IN AIR (%)	AUTOIGNITION TEMPERATURE		
N/A	N/A	N/A	N/A		
NFPA CODES	HEALTH	1	HMIS CODES:	HEALTH	1
	FLAMMABILITY	1		FLAMMABILITY	1
	REACTIVITY	0		REACTIVITY	0
	OTHER	N/A		PROTECTION	B*
EXTINGUISHER MEDIA:	Water fog, foam, CO ₂ , dry chemical				

*B = safety glasses and gloves

SPECIAL FIRE FIGHTING PROCEDURES: Toxic vapors from wood and preservative may be given off in a fire. Wear full protective equipment and self-contained air unit.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V - REACTIVITY DATA

IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING/STORAGE (Y/N)? Y

CONDITIONS TO AVOID (REGARDING STABILITY): N/A

INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal: Ash will contain free arsenic and chromium and may be toxic.

HAZARDOUS POLYMERIZATION POSSIBLE (Y/N)? N

CONDITIONS TO AVOID (REGARDING POLYMERIZATION): N/A

SECTION VI - TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY: Eye and/or skin contact to wood, inhalation of dust.

SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE: **EYE** - Treated or untreated wood dust may cause mechanical irritation.

SKIN - Handling may cause splinters. Prolonged and/or repeated direct contact with treated or untreated wood dust may cause mild, transient irritation. Some species of untreated wood dust may cause allergic contact dermatitis in sensitive individuals. See COMMENTS. **INHALATION** - Finely divided treated or untreated wood dust may cause nose, throat or lung irritation and other respiratory effects. Burning treated wood can release toxic metals into ash and possible smoke. Some species of untreated wood dust may cause allergic respiratory response in sensitive individuals. See COMMENTS. **INGESTION** - Not anticipated to be a health problem. A single ingestion by a small child of a large amount (approximately 2.5 oz. or 6 cubic inches) of treated wood dust may require immediate medical attention. See NOTE TO PHYSICIAN and COMMENTS.

NOTE TO PHYSICIAN: If one ounce of treated wood dust per 10 lbs. of body weight are ingested, acute arsenic intoxication is a possibility.

CHRONIC OVEREXPOSURE: See the above exposure comments.

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CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?: See **COMMENTS** section on page 3.

- NATIONAL TOXICOLOGY PROGRAM (Y/N): Y
- IARC MONOGRAPHS (Y/N): Y
- OSHA (Y/N): Y

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Individuals with pre-existing disease in or a history of ailments involving the skin, kidney, liver, respiratory tract, eyes, or nervous system are at a greater than normal risk of developing adverse effects from woodworking operations with this product.

ADDITIONAL INFORMATION

EXPOSURE LIMITS:	See Section II
IRRITANCY OF PRODUCT:	Irritation from this product is unlikely.
SENSITIZATION TO PRODUCT:	Not Applicable
TERATOGENICITY:	Not Applicable
REPRODUCTIVE TOXICITY:	Not Applicable
MUTAGENICTY:	Not Applicable
SYNERGISTIC PRODUCTS:	Not Applicable



EMERGENCY AND FIRST AID PROCEDURES



EMERGENCY PHONE NUMBER OF MANUFACTURER: (905) 854-2244

1. INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical aid.
2. EYE CONTACT: Gently flush any particles from the eye with large amounts of cold water. DO NOT RUB EYES.
3. SKIN CONTACT: Rinse skin free of sawdust material with water to avoid abrasion of skin. DO NOT RUB until skin is free of material then wash thoroughly with soap and water.
4. INGESTION: Give 1 - 2 glasses of milk or water to victim if conscious and alert. Induce vomiting or give 1 - 2 oz. (30 - 60 g) activated charcoal in water to victim if conscious and alert. See COMMENTS.

COMMENTS

Individuals with pre-existing disease in or a history of ailments involving the skin, kidney, liver, respiratory tract, eyes, or nervous system are at a greater than normal risk of developing adverse effects from woodworking operations with this product.

UNTREATED WOOD DUST OR SAWDUST: The principal health effects reported from occupational exposure to sawdust or wood dust generated from untreated wood are dermatitis, rhinitis, conjunctivitis, reduced or suppressed mucociliary clearance rates, chronic lung changes, and nasal sinus cancer. Skin and respiratory sensitization has been reported from exposure to hardwood dust. Epidemiological studies have been reported on carcinogenic risks of employment in the furniture making industry, the carpentry industry, and the lumber and sawmill industry. IARC has determined that there is sufficient evidence to classify untreated wood dust as a nasal carcinogen in humans (Ref. Monograph 62).

CCA TREATED WOOD: Sawdust from CCA treated wood has been shown not to cause chromosome changes in mice fed sawdust or birth defect in mice or rabbits receiving sawdust in their feed or applied to their skin. Recreational exposure to children using CCA treated wood playground equipment has been evaluated. The results of this study indicate that the amount of arsenic transferred from the wood surface to the child is within the normal variation of total arsenic exposure to children and that the maximum risks of skin cancer associated with the exposure approximates the skin cancer risk from the sunlight experienced during play periods. Leaf, stem, and fruit of grape plants grown adjacent to CCA treated wood poles did not take up preservative components from the poles above background levels (limit of detection 0.2 and 0.05 ppm for chrome and arsenic, respectively).

CCA PRESERVATIVE: The effects of industrial exposure to the chrome-copper-arsenic preservative used to treat CCA wood has been evaluated in three independent epidemiology studies. In each case the authors concluded that workers exposed on a daily basis to these preservatives were at no increased risk of death or disease as a result of their exposure. Ingestion of components (arsenic and chromium) of the liquid preservative have caused toxicity to pregnant laboratory animals and their fetuses. Reproductive performance in laboratory animals was not affected by feeding diets containing arsenic. IARC, NTP and OSHA do not consistently distinguish among arsenic or chrome species but list inorganic arsenic and chromium and certain chromium compounds as human carcinogens. Cancers in humans have followed from long term:

- 1) consumption of Fowler's Solution, a medicinal trivalent arsenical;
- 2) inhalation and skin contact with inorganic trivalent arsenic sheep-dust;
- 3) the combined inhalation of arsenic trioxide (trivalent arsenical) sulfur dioxide, and other particulates from ore smelting in copper production;

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- 4) occupational exposure to non-water-soluble hexavalent chromium. This product is not manufactured with trivalent arsenic or non-water-soluble hexavalent chromium compounds but may contain some trivalent arsenic as a result of reactions occurring after wood treatment.

This product must not come in contact with food or feed. Showering and clothing change recommended at the end of each shift. No known ingredients which occur at greater than 0.1%, other than those listed above, are listed as a carcinogen in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA 29 CFR 1910.1001-1047 Subpart Z Toxic and Hazardous Substances (Specifically Regulated Substances).

Do not use until Consumer Information sheet is read and understood. Wash exposed areas promptly and thoroughly after skin contact from working with this product and before eating, drinking, using tobacco products or rest rooms.

Do not wear contact lens without proper eye protection when using them.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

HAZARD CLASS: Not regulated.

U.S. DOT ID : Not regulated.

UN/NA NUMBER: Not regulated.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Use good personal hygiene, wash before eating and smoking. Specify only pressure treated wood treated with "oxide" CCA preservatives and free from excess surface deposits of preservatives. Avoid handling and machining of freshly treated "wet" wood unless specified safety precautions are observed.

OTHER PRECAUTIONS: Do not use until Consumer Information Sheet (CIS) is read and understood. Wash exposed areas promptly and thoroughly after skin contact from working with this product and before eating, drinking, using tobacco products or rest rooms. Do not wear contact lens without proper eye protection when using them. Wear dust mask when cleaning up sawdust. Read and follow CIS instructions.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Maintain a clean workplace. Clean up scrap lumber and sawdust.

WASTE DISPOSAL METHODS: Dispose of waste material in an approved landfill. DO NOT BURN! Ash may be toxic and a hazardous waste; combustion vapors may be toxic. Dispose in accordance with all Federal, Provincial, and Local laws.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: When machining, a dust mask is recommended. If exposure limits are exceeded, use NIOSH approved respirator.

VENTILATION REQUIREMENTS: In enclosed environments, ventilation may be required in order to maintain exposure limits.

LOCAL EXHAUST: N/A

MECHANICAL: When machining.

SPECIAL: N/A

OTHER: N/A

PROTECTIVE GLOVES: Rubber when handling wet wood. Leather gloves recommended to avoid splinters.

EYE PROTECTION: To protect from sawdust.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: As necessary to limit exposure when handling wet wood.

WORK/HYGIENIC PRACTICES: Use good personal hygiene. Wash hands before eating or smoking.

N/A = Not Applicable

NOTICE: The information herein is given in good faith but no warranty, expressed or implied, is made, and Timber Specialties, Co. expressly disclaims liability from reliance on such information.

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