

MATERIAL SAFETY DATA SHEET

PART I

What is the material and what do I need to know in an emergency?

1. PRODUCT IDENTIFICATION

TRADE NAMES (AS LABELED): **ULTRAWOOD PRESSURE TREATED WOOD**

PRODUCT CLASS: NA

SYNONYMS: Pressure treated wood with Chromated Copper Arsenate

MANUFACTURER'S NAME:

ADDRESS:

EMERGENCY PHONE:

BUSINESS PHONE:

MSDS PREPARATION DATE: January 30, 2003

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA			OTHER
			TLV mg/m ³	STEL mg/m ³	PEL mg/m ³	STEL mg/m ³	IDLH mg/m ³	
ARSENIC (as As ₂ O ₅)	7778-39-4	0.15-3.0	0.5	NE	0.05	NE	NE	human carc. LD ₅₀ 48 mg/kg (oral rat)
HEXAVALENT CHROMIUM (as CrO ₃)	7440-47-3	0.25-4.0	0.1 (as Cr(VI))	NE	0.1C (as CrO ₃)	NE	NE	suspect human carc. LD ₅₀ (oral-rats) 80 mg/kg
COPPER (as CuO)	1317-38-0	0.10-2.0	1.0 (8- hour TWA)	NE	1.0	NE	NE	LD ₅₀ 470 mg/kg (oral rat)
INERTS	NE	91-99.5	NE	NE	NE	NE	NE	NE

NE = not established

3. HAZARD IDENTIFICATION

SYMPTOMS OF OVER EXPOSURE BY ROUTE OF EXPOSURE:

INHALATION: Wood dust may be irritating to nose and throat. Can cause chest pains and chemical pneumonitis.

CONTACT WITH SKIN or EYES: Skin lesions commonly observed on hands at base of nails and on knuckles; these are usually not disabling. Conjunctivitis (of eyes) can result from mild exposure to wood dust.

SKIN ABSORPTION: Skin absorption is possible through wood splinters, causing skin ulcers.

INGESTION: Wood fibers may result in nausea, vomiting, abdominal pain and diarrhea.

INJECTION: Direct injection of this substance may cause effects similar to skin contact and skin adsorption, including lesions and ulceration.

HEALTH EFFECTS OR RISKS FROM EXPOSURE An explanation in lay terms:

ACUTE: Toxic if ingested, inhaled, or otherwise introduced directly into the body. Ingestion of large amount could be fatal. Symptoms of acute exposure include nausea, diarrhea, and severe abdominal distress.

CHRONIC: Chronic exposure could lead to dermatitis of the skin (red, irritated, cracked, and/or painful skin), allergic skin responses can occur in sensitive people. Chronic exposure to any wood dust could result in reduction of the sense of smell.

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

If wood fibers are in the eyes, open victim's eyes while under gentle running water. Use sufficient force to open eye lids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Victim must seek immediate medical attention especially if splintering occurs in the eye. If victim is not breathing, remove to fresh air and use artificial respiration to support vital functions.

If Ultrawood pressure-treated wood is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, DO NOT induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.

Victim of chemical exposure and all rescuers must be taken for medical attention. Take copy of label and MSDS to physician or health professional with victim.

5. FIRE-FIGHTING MEASURES

FLASH POINT, °F (method): N/A AUTOIGNITION TEMPERATURE, °F: 520 °F

FLAMMABLE LIMITS in air by volume, %: lower N/A upper N/A

FIRE EXTINGUISHING MATERIALS: Product will burn or contribute to intensity of a fire. Fire fighting should be aimed at surrounding materials.

Water Spray: OK Carbon Dioxide: OK Foam: OK
Dry Chemical: OK Halon: OK

SPECIAL FIRE FIGHTING PROCEDURES: INCIPIENT FIRE RESPONDERS SHOULD WEAR EYE PROTECTION AND SELF BREATHING APPARATUS. STRUCTURAL FIRE FIGHTERS MUST WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. TOXIC VAPORS MAY BE GIVEN OFF FROM BURNING WOOD.

UNUSUAL FIRE & EXPLOSION HAZARDS: WHEN HEATED TO DECOMPOSITION, THIS PRODUCT MAY EMIT TOXIC FUMES CONTAINING ARSENIC, COPPER, AND/OR CHROMIUM. HIGH AIRBORNE LEVELS OF WOOD DUST MAY BURN RAPIDLY IN THE AIR WHEN EXPOSED TO AN IGNITION SOURCE. ASH FROM FIRE MAY CONTAIN TOXIC COMPOUNDS.

6. ACCIDENTAL RELEASE MEASURES

SPILL & LEAK RESPONSE: Ultrawood pressure-treated wood is not reportable as a leachable substance. Ultrawood is stable in the wood cells to minimize leaching. Unused wood should be disposed of in accordance with Federal, State, and local hazardous waste disposal regulations.

PART III *How can I prevent hazardous situations from occurring?*

7. HANDLING and STORAGE

WORK PRACTICES & HYGIENE PRACTICES: Avoid getting Ultrawood pressure-treated wood in you. Wash hands after handling Ultrawood pressure treated wood. Do not eat or drink while handling treated wood. Follow SPECIFIC USE INSTRUCTIONS supplied with product.

STORAGE & HANDLING PRACTICES: Avoid frequent or prolonged inhalation of sawdust from treated wood. When sawing or machining treated wood, wear a dust mask that is appropriate for the task and MSHA/NIOSH approved. Whenever possible, these operations should be preformed outdoors to avoid indoor accumulations of airborne sawdust from treated wood.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION & ENGINEERING CONTROLS: Use with adequate ventilation. Use a mechanical fan or vent area to outside. Whenever possible, these operations should be performed outdoors.

RESPIRATORY PROTECTION: Industrial hygiene monitoring should be performed to verify actual exposure levels when working with treated wood where dust is created. Areas where wood dust exist, where an MSHA/NIOSH approved dust mask. Be sure to review the consumer information sheet.

In exceptional circumstances if the level of inorganic arsenic is unknown or exceeds 20 mg/m³ or if chromium exceeds 12.5 mg/m³, a full facepiece, self-contained breathing apparatus operated in the positive pressure mode must be used. If the arsenic concentration is known, follow the respiratory protection guide provided in 29 CFR 1910.1018, the OSHA Inorganic Arsenic Standard.

EYE PROTECTION: Splash goggles or safety glasses should be used during cutting process of any wood products.

HAND PROTECTION: Use appropriate gloves for the task. Under normal conditions, wear leather or fabric gloves when handling pressure treated wood. However, vinyl, polyvinyl chloride, neoprene, BUNA-N, natural rubber, and polyethylene are generally acceptable for the safe handling of freshly treated wood at the treatment plant. Wash hands after removing gloves.

BODY PROTECTION: Use body protection appropriate for the task. Normal work clothing and safety footwear is acceptable. However, chemical protective clothing made from vinyl, polyvinyl chloride, neoprene, BUNA-N, natural rubber, and polyethylene are generally acceptable for use at the wood treatment plant.

9. PHYSICAL and CHEMICAL PROPERTIES

VAPOR DENSITY: N/A EVAPORATION RATE (water=1): N/A

SPECIFIC GRAVITY: N/A MELTING POINT or RANGE: °C N/A

SOLUBILITY IN WATER: Highly insoluble BOILING POINT: NA

VAPOR PRESSURE, mm Hg @ 20 °C: N/A

APPEARANCE & COLOR: Light to dark green in color. No odor is apparent.

HOW TO DETECT THIS SUBSTANCE (warning properties): This product has no unusual warning properties.

10. STABILITY and REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: OPEN FLAMES WILL CAUSE PRODUCT TO DECOMPOSE, POSSIBLY PRODUCING TOXIC GASES. CONDITIONS WHICH CAN GENERATE HAZARDOUS CONDITIONS MAY OCCUR IN THE ASH CONTENT AS A RESULT OF OPEN BURNING OF ULTRAWOOD PRESSURE TREATED WOOD.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

None Known.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: OPEN FLAMES!

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION

SUSPECTED CANCER AGENT

This product's ingredient's are found on the following lists:

	<u>FEDERAL</u>	<u>OSHA</u>	<u>Z LIST</u>	<u>NTP</u>	<u>IARC</u>	<u>CAL/OSHA</u>
ARSENIC		Y			Y	Y
CHROMIUM		N			Y	N
COPPER		N			N	N

IARC, NTP, and OSHA do not consistently distinguish among arsenic and chromium species, but list inorganic arsenic and chromium as human carcinogens. However, the International Agency for Research on Cancer(IARC) has determined there is sufficient evidence in humans for the carcinogenicity of wood dust group 1.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Inhalation exposure may aggravate pre-existing respiratory ailments. Skin contact may aggravate pre-existing dermatitis. Arsenic compounds can cause gastrointestinal and skin systemic effects upon ingestion. Arsenic compounds are acutely toxic by a subcutaneous route of exposure, such as through breaks in the skin.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms. Treat victims for arsenic pentoxide (As₂O₅) and/or chromium trioxide (CrO₃) exposure.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: Arsenic, copper, and chromium are stable in the environment. They do not decompose with time. Wood dust from cutting, processing, and sanding may contain arsenic, chromium or copper.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Concentrations of heavy metals are known to be detrimental to plants or animals. Heavy metals are known to bio-concentrate in the food chain. No direct effect of Ultrawood pressure treated wood on plant or vegetables has been submitted as harmful evidence to human consumption.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence has proven pressure-treated wood detrimental to marine life.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by the handling, may be disposed of by means of a sanitary landfill facility or as advised by your local hazardous waste regulatory authority.

EPA WASTE NUMBER: NA

14. TRANSPORTATION INFORMATION

THIS MATERIAL IS NON-HAZARDOUS NON-REGULATED AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: NA
HAZARD CLASS NUMBER, DESCRIPTION: NA
UN IDENTIFICATION NUMBER: NA
DOT LABEL(S) REQUIRED: NA
PACKING GROUP: NA
EMERGENCY RESPONSE GUIDE NUMBER: NA

15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT.

TSCA INVENTORY STATUS: The chemicals in this compound ARE NOT listed on the TSCA Inventory.

CALIFORNIA PROPOSITION 65: Warning: This wood contains chemicals known to the State of California to cause cancer. Therefore all wood products shipped into California must carry the proper carcinogenicity warnings on all labels and end-tags.

CERCLA REPORTABLE QUANTITIES (RQ): Ultrawood pressure-treated wood is not reportable under CERCLA standards.

STATE REGULATORY INFORMATION: The following chemicals in this product are covered under specific state regulations:

Alaska - Designated Toxic and Hazardous Substances: YES
California - Permissible Exposure Limits for Chemical Contaminants: YES
Florida - Substance List: YES
Illinois - Toxic Substance List: YES
Kansas - Section 302/313 List: YES
Massachusetts - Substance List: YES
Minnesota - List of Hazardous Substances: YES
Missouri - Employer Information/Toxic Substance List: YES
New Jersey - Right to Know Hazardous Substance List: YES
North Dakota - List of Hazardous Chemicals and Reportable Quantities: YES
Pennsylvania - Hazardous Substance List: YES
Rhode Island - Hazardous Substance List: YES
Texas - Hazardous Substance List: YES
West Virginia - Hazardous Substance List: YES
Wisconsin - Toxic and Hazardous Substances: YES

LABELING (Precautionary Statements):

Handle in a well ventilated area.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

16. OTHER INFORMATION

PREPARED BY: Chemical Specialties, Inc.
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Charlotte, N.C. 28217

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or to use with any other materials. This information is furnished free of charge and is based on data believed to be reliable as of the date hereof. It is intended for use by persons possessing technical knowledge at their own discretion and risk. Since actual use is beyond our control, no guarantee, expressed or implied, and no liability is assumed by CSI in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any patents.