



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

Ingestion: Not expected to be a route of exposure in normal industrial use.
Sensitization: Various species of untreated wood dust can elicit an allergic respiratory response in sensitized persons. Various species of untreated wood dust can elicit an allergic type skin irritation in sensitized persons.
Chronic Target Organ
Toxicity: Respiratory Tract, Skin, Eyes
Supplemental Health Hazard
Information: No additional health information available

Hazardous Materials Identification Ratings: Health: 2 Fire: 1 Physical Hazard: 0

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

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
MIXTURE	COPPER COMPOUNDS	0.1 - 2.0
141-43-5	Ethanolamine	
Not Assigned	Wood Dust	88 - 99.5
7664-41-7	Ammonia (Applies only if treatment facility adds ammonia locally. Check with treatment facility to determine applicability.)	0 - 1
50-00-0 (Only applies to plywood products)	Formaldehyde (by-product of the untreated plywood article)	0 - 0.1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Wood dust, all soft and hard woods, Wood dusts-soft woods, Wood dusts-hard wood, Copper compounds, n.o.s., Copper.

Component Information/Information on Non-Hazardous Components

WARNING ! Wood dust may form explosive mixture with air. Wood dusts may cause irritation to the eyes, skin and respiratory tract.

*** Section 4 - First Aid Measures ***

Inhalation: **IF INHALED:** Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.
Skin Contact: **IF ON SKIN:** Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.
Eye Contact: **IF IN EYES:** Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Ingestion: **IF SWALLOWED:** Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

*** Section 5 - Fire Fighting Measures ***

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or explosive.

Flammable Properties

Flash Point: No data.
Autoignition Temperature: No data.
Fire / Explosion Hazards: If the product is involved in a fire, toxic smokes could develop.



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

Dust may be ignitable if mixed with air in the presence of an ignition source.

Extinguishing Media: Water spray

Fire Fighting Instructions: In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-containing breathing apparatus.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion., Hazardous combustion/decomposition products may include but are not limited to:, Copper metal and copper oxides, Copper Fumes

Upper Flammable / Explosive Limit, % in air: No data.

Lower Flammable / Explosive Limit, % in air: No data.

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

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

*** Section 6 - Accidental Release Measures ***
--

Personal Protection for Emergency Situations: No extra protection required beyond that listed in Section 8. In case of fire, use normal firefighting equipment.

Spill Mitigation Procedures

Air Release: Hazardous concentrations in air may be found in local spill area and immediately downwind. Contain all solids for treatment or disposal.

Water Release: This material is insoluble in water. Notify all downstream users of possible contamination. Contain all solids for treatment or disposal.

Land Release: Avoid dust generation. Contain all solids for treatment or disposal.

Additional Spill Information : Remove all sources of ignition. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

***** Section 7 - Handling and Storage *****

Handling: **DO NOT BURN TREATED WOOD.** Whenever possible, sawing or machining treated or untreated wood should be performed outdoors to avoid accumulations of airborne wood dust. Wear gloves, eye protection, dust mask and protective clothing. Do not use treated chips or sawdust as mulch. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms.

Storage: Keep away from unguarded flame, sparks, and heat sources. Protect from physical damage. Maintain good housekeeping.

Incompatible Materials for Storage: Oxidizers, strong acids, and bases.

***** Section 8 - Exposure Controls / Personal Protection *****

Ventilation: Whenever possible, sawing or machining treated or untreated wood should be performed outdoors or in well ventilated areas to avoid accumulations of airborne wood dust. Ventilation should be sufficient to maintain exposures below the recommended exposure limits.

Protective Equipment for Routine Use of Product

Respiratory Protection : When sawing or cutting treated or untreated wood, wear a NIOSH approved P95 or P100 Particulate filter respirator. FOR PLYWOOD PRODUCTS ONLY: If Formaldehyde vapor levels exceed the recommended exposure limits, wearing a NIOSH approved respirator is required. Formaldehyde is a by- product of the untreated plywood article and not the result of this treatment.

Respirator Type : For plywood products only: A NIOSH approved full-face air purifying respirator with combination formaldehyde/organic vapor cartridge and a P100 filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin Protection : Wear leather gloves. Wear long sleeve shirt, pants, and steel-toed shoes when handling treated or untreated wood.

Eye Protection: Use safety glasses with side shields or chemical goggles when sawing or cutting treated or untreated wood.

Protective Clothing Type: Wear leather gloves.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
Copper Compounds		NIOSH-IDLH	100 mg/m ³
Ethanolamine	141-43-5	ACGIH	3 ppm TWA
Ethanolamine	141-43-5	ACGIH	6 ppm STEL
Ethanolamine	141-43-5	OSHA Z1	3 ppm PEL 6 mg/m ³
Ethanolamine	141-43-5	NIOSH-IDLH	30 ppm
Wood Dust		OSHA Z1	15.0 mg/m ³ PEL Total dust. A state-run OSHA program may have more stringent limits for wood dust and/or PNOR.



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

Wood Dust		OSHA Z1	5.0 mg/m3 PEL Respirable fraction. A state-run OSHA program may have more stringent limits for wood dust and/or PNOR.
Wood Dust		ACGIH	1.0 mg/m3 TWA Inhalable fraction.(Western Red Cedar)
Wood Dust		ACGIH	1.0 mg/m3 TWA Inhalable fraction.(All other species)
Ammonia (Only applies if treatment facility adds ammonia locally. Check with treatment facility to determine applicability.)	7664-41-7	ACGIH	25 ppm TWA
Ammonia (Only applies if treatment facility adds ammonia locally. Check with treatment facility to determine applicability.)	7664-41-7	ACGIH	35 ppm STEL
Ammonia (Only applies if treatment facility adds ammonia locally. Check with treatment facility to determine applicability.)	7664-41-7	OSHA Z1	50 ppm PEL 35 mg/m ³ PEL
Ammonia (Only applies if treatment facility adds ammonia locally. Check with treatment facility to determine applicability.)	7664-41-7	NIOSH-IDLH	300 ppm
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ACGIH	0.3 ppm Ceiling (Only Applies to plywood products)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	OSHA	Reference: (Only applies to plywood products)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	OSHA	0.75 ppm TWA (Only applies to plywood products)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	OSHA	2 ppm STEL (Only applies to plywood products)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	OSHA	0.5 ppm OSHA_ACT (Only applies to plywood products)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	NIOSH-IDLH	20 ppm, (Only applies to plywood products)



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

*** Section 9 - Physical & Chemical Properties ***

Physical State:	Solid	Vapor Density:	Not applicable
Form:	Solid	Viscosity:	Not applicable
Color:	Green, slightly	Fat Solubility:	No Data
Odor:	None	Solubility in Water:	Insoluble
Molecular Weight:	None Established	Partition Coefficient	No Data
Specific Gravity:	Not applicable	n-octanol/water:	
pH:	Not applicable	Evaporation Rate:	Not Applicable
Boiling Point:	Not applicable	Oxidizing:	None
Freezing Point:	Not applicable	Volatiles, % by vol.:	No Data
Melting Point:	No Data	VOC Content:	No Data
Density:	Solid	HAP Content:	No Data
Vapor Pressure:	Not applicable		

*** Section 10 - Chemical Stability & Reactivity Information ***

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures., Contact with incompatible substances Stable under normal conditions of temperature and pressure.
Chemical Incompatibility:	strong acids, oxidizers
Hazardous Decomposition Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Decomposition Temperature:	No data



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

* * * Section 11 - Toxicological Information * * *

Component Animal Toxicology

Oral LD₅₀ value:

Ethanolamine LD₅₀ = 1,700 mg/kg Rat

Dermal LD₅₀ value:

Ethanolamine LD₅₀ = Approximately 1,000 mg/kg Rabbit

Inhalation LC₅₀ value:

Ethanolamine Inhalation LC₅₀ 1 HOUR > 4.8 MG/L Mouse

Ethanolamine Inhalation LC₅₀ 4 HOUR > 970 ppm Mouse

Product Animal Toxicity

Oral LD₅₀ value: LD₅₀ Believed to be > 5,000 mg/kg Rat

Dermal LD₅₀ value: LD₅₀ Believed to be > 2,000 mg/kg Rabbit

Inhalation LC₅₀ value: No Data

Skin Irritation: Prolonged and/or repeated contact with treated or untreated wood dust may result in mild irritation.

Eye Irritation: Treated or untreated wood dust may cause mechanical irritation.

Skin Sensitization: Various species of untreated wood dust can elicit an allergic respiratory response in sensitized persons., Various species of untreated wood dust can elicit an allergic type skin irritation in sensitized persons.

Subchronic / Chronic Toxicity: May cause respiratory sensitization and/or irritation., Treated or untreated wood dust, depending on the species, may cause dermatitis on prolonged, repetitive contact.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Ethanolamine This chemical has been tested in laboratory animals and no evidence of teratogenicity, embryotoxicity or fetotoxicity was seen.

Mutagenicity: Not known or reported to be mutagenic.

Ethanolamine This material was non-mutagenic in the Ames test.

Carcinogenicity: IARC has classified untreated hardwood and hardwood/softwood mix wood dust as a Group 1 human carcinogen. The wood dust classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with occupational exposures to untreated wood dust. NTP has classified all untreated wood dust as a carcinogen.



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

Ethanolamine

Mixture with nitrites can form nitrosamines which have caused cancer in laboratory animals.

*** Section 12 - Ecological Information ***

Overview: No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: Ethanolamine

Rainbow trout (<i>Salmo gairdneri</i>)	(nominal, static). 96 HOUR LC50 = 150 mg/l
Mosquito fish	(nominal, static). 96 HOUR LC50 = 337.5 mg/l
Bluegill	(nominal, static). 96 HOUR LC50 = 329.16 mg/l
Fathead minnow (<i>Pimephales promelas</i>)	(measured, flow-through) 96 HOUR LC50 = 2,070 mg/l
Goldfish	24 HOUR LC50 = 190 mg/l
Daphnia magna	(nominal, static). 24 HOUR LC50 = 140 mg/l
Common shrimp (<i>Crangon crangon</i>)	(nominal, renewal). 48 HOUR LC50 > 100 mg/l
Brine shrimp	48 HOUR LC50 = 7,100 mg/l

*** Section 13 - Disposal Considerations ***

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary : If this product becomes a waste, it will be a nonhazardous waste according to U.S. RCRA regulations. Dispose of in accordance with all Local, State, Federal, and Provincial Environmental Regulations.

Potential US EPA Waste Codes : Not applicable

*** Section 14 - Transportation Information ***

Land (US DOT): NOT REGULATED AS A DOT HAZARDOUS MATERIAL

Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL
Flash Point: No data.

Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL,

Emergency Response Guide Number: Not applicable

*** Section 15 - Regulatory Information ***

UNITED STATES:

Toxic Substances Control Act (TSCA): This item is exempt from TSCA and FIFRA under the treated article exemption per 40 CFR 152.25(a).
EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
Physical None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

SARA III Threshold Planning Quantity: None established

Reportable Quantity (49 CFR 172.101, Appendix):

CERCLA Reportable quantity:
SARA III Reportable quantity: None established

Supplier Notification Requirements (40 CFR 372.45). 313 Reportable Components

SARA III De minimis concentration:

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112:

CAA None established
CAA 112I None established
CAA AP None established

State Right-to-Know Regulations Status of Ingredients Pennsylvania:

CAS #	COMPONENT NAME
141-43-5	Ethanolamine
34590-94-8	Propanol, (2, methoxy-methylethoxy-)
50-00-0	Formaldehyde (by-product of the untreated plywood article)
7664-41-7	Ammonia (Only applies if treatment facility adds ammonia locally. Check with treatment facility to determine applicability.)

PENN RTK

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK 08 1989
ETHANOL, 2-AMINO-

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK 08 1989
PROPANOL, (2-METHOXYMETHYLETHOXY)-

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK 08 1989
FORMALDEHYDE

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

08 1989
AMMONIA

New Jersey:

CAS #	COMPONENT NAME
141-43-5	Ethanolamine
60207-90-1	Propiconazole
	COPPER COMPOUNDS
50-00-0	Formaldehyde (by-product of the untreated plywood article)
7664-41-7	Ammonia (Only applies if treatment facility adds ammonia locally. Check with treatment facility to determine applicability.)

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5) NJ RTK
12 1989
Substance no. 0835
ETHANOLAMINE

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5) NJ RTK
12 1989
Substance no. 0835
ETHANOL, 2-AMINO- ETHANOLAMINE

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5) NJ RTK
12 1989
Hazard Designation: Substance no. 0835
ETHANOLAMINE

US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1) NJ RTK
2001
Substance no. 3442
PROPICONAZOLE (1-[2-(2,4-DICHLOROPHENYL)-4-PROPYL-1,3-DIOXOLAN-2-YL]-METHYL-1H-1,2,4-TRIAZOLE)

US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1) NJ RTK
2001
Substance no. 2215
COPPER COMPOUNDS [EXCEPT: C.I. PIGMENT BLUE 15, C.I. PIGMENT GREEN 7, AND C.I. PIGMENT GREEN 36]

US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1) NJ RTK
2001
Substance no. 0946

FORMALDEHYDE

US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental Hazardous



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1) NJ RTK
10 2006

Substance no. 0084

AMMONIA (THE REPORTABLE QUANTITY FOR ANHYDROUS AMMONIA IS BASED ON
100% OF THE ANHYDROUS AMMONIA. THE REPORTABLE QUANTITY FOR AQUEOUS AMMONIA IS THE
AMMONIA EQUIVALENT WEIGHT FOR CONCENTRATIONS OF 20% OR GREATER.)

Massachusetts:

CAS #	COMPONENT NAME
141-43-5	Ethanolamine
34590-94-8	Propanol, (2, methoxy-methylethoxy-)
50-00-0	Formaldehyde (by-product of the untreated plywood article)
7664-41-7	Ammonia (Only applies if treatment facility adds ammonia locally. Check with treatment facility to determine applicability.)

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of
Massachusetts Regulations Section 670.000) MASS RTK
04 1993

2-AMINOETHANOL ETHANOLAMINE

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of
Massachusetts Regulations Section 670.000) MASS RTK
04 1993

DIPROPYLENE GLYCOL METHYL ETHER

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of
Massachusetts Regulations Section 670.000) MASS RTK
04 1993

FORMALDEHYDE FORMALIN

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of
Massachusetts Regulations Section 670.000) MASS RTK
04 1993

AMMONIA AMMONIA, ANHYDROUS

California Proposition 65:

CAS #	COMPONENT NAME
50-00-0	Formaldehyde (by-product of the untreated plywood article)

US CA CRT Carcinogenic.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) US CA CRT
12 2005

Hazard Designation: Listed: January 1,
1988

FORMALDEHYDE (GAS) Carcinogenic.

US CA65CRT None established

WHMIS Hazard Classification:

WHMIS None established



Material Safety Data Sheet

Material Name: Viance CA-C Treated Wood

MSDS ID: VIA-183

*** Section 16 - Other Information ***

MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections
Major References : Available Upon Request

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. THE MANUFACTURER BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. .

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists. NA = Not available or Not Applicable. TLV = Threshold Limit Value. NIOSH = National Institute of Occupational Safety and Health. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. NFPA = National Fire Protection Association. HMIS = Hazardous Material Information System. CFR = Code of Federal Regulations. EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry. CERCLA = Comprehensive Environmental Response Compensation & Liability Act; SARA = Superfund Amendments & Reauthorization Act; RCRA = Resource Conversation & Recovery Act.

End of Sheet VIA-183