

MATERIAL SAFETY DATA SHEET

Contact: Robert Young

TRADE NAME Wood Dust

SYNONYMS None

CAS. NO. None

DESCRIPTION

Particles generated by any manual or mechanical cutting or abrasion process performed on wood.

PHYSICAL DATA

Boiling Point.....Not Applicable

Specific Gravity......Variable (Dependent on wood species and moisture content.)

Vapor Density......Not Applicable

% Volatiles By Volume.....Not Applicable

Melting Point.....Not Applicable

Vapor Pressure......Not Applicable

Solubility in H²O (% by weight)....Insoluble

Evaporation Rate (Butyl Acetate=1).Not Applicable

pH.....Not Applicable

Appearance and Odor.....Light to dark colored granular solid. Color and odor are dependent on the wood species and time since dust was generated.

FIRE AND EXPLOSION DATA

Flash Point.....Not Applicable

Auto-ignition Temperature......Variable typically 400 - 500°F

Explosive Limits in Air.....40 grams/m³ (LEL)

Extinguishing Media......Water, CO₂, Sand

Special Fire Fighting Procedures.....Use water to wet down wood dust to reduce the likeli-

hood of ignition or dispersion of dust in the air. Remove burned or wet dust to open area after fire is extinguished.

Unusual Fire and Explosion Hazard..Wood dust is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source.

HEALTH EFFECTS INFORMATION

Exposure Limit......ACGIH $TLV^{(R)}$: $TWA-5.0 \text{ mg/m}^3$;

STEL (15 min.) - 10 mg/m³ (softwood)

TWA-1.0 mg/m³ (certain hard-woods such as beech and oak)

See important footnote below OSHA PELs

concerning OSHA PELs for wood dust. TWA-15.0 mg/m³ (total dust) 5.0 mg/m³ (respirable fraction)¹

 1 In <u>AFL-CIO v. OSHA</u> 965 F. 2d 962 (11th Cir. 1992) , the court overturned OSHA's 1989 Air Contaminants Rule, including the specific PELs for wood dust that OSHA had established at that time. <u>The 1989 PELs were: TWA-5.0 mg/m³; STEL(15 min.) - 10.0 mg/m³ (ALL SOFT AND HARD WOODS, EXCEPT WESTERN RED CEDAR: WESTERN RED CEDAR; TWA - 2.5 mg/m³</u>

Wood dust is now officially regulated as an organic dust under the Particulates Not Otherwise Regulated (PNOR) or Inert or Nulsance Dust categories at PELs noted under Health Effects Information section of this MSDS. However, A NUMBER OF STATES HAVE INCORPORATED PROVISIONS OF THE 1989 STANDARD IN THEIR STATE PLANS. ADDITIONALLY, OSHA HAS ANNOUNCED THAT IT MAY CITE COMPANIES UNDER THE OSH ACT GENERAL DUTY CLAUSE UNDER APPROPRIATE CIRCUMSTANCES FOR NON-COMPLIANCE WITH THE 1989 PELs.



Skin and Eye Contact......Wood dust can cause eye irritation. Various species of wood dust can elicit allergic contact dermatitis in sensitized individuals.

Ingestion......Not Applicable

Skin Absorption......Not known to occur

Inhalation......May cause nasal dryness, irritation and obstruction.

Coughing, wheezing and sneezing; sinusitis and prolonged colds have also been reported.

Chronic Effects......Wood dust, depending upon species, may cause dermatitis

on prolonged, repetitive contact; may cause respiratory sensitization and/or irritation. IARC classifies wood dust as a carcinogen to humans (Group 1). This 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 exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

REACTIVITY DATA

Conditions Contributing.....Stable under normal conditions to Instability

Incompatibility......Avoid contact with oxidizing agents and drying oils.

Avoid open flame. Product may ignite at temperatures in excess of 400° F.

Hazardous Decomposition Products......Thermos-oxidative degradation of wood

produces irritating and toxic fumes and gases, including, CO, aldehydes and organic acids.

Conditions Contributing to......Not Applicable

Polymerization

PRECAUTIONS AND SAFE HANDLING

Avoid Eye Contact.

Avoid Repeated or Prolonged Contact with Skin. Careful bathing and clean clothes are indicated after exposure.



Avoid Prolonged or Repeated Breathing of Wood Dust in Air.

Avoid contact with oxidizing agents and drying oils.

Avoid open flame.

GENERALLY APPLICABLE CONTROL MEASURES

Ventilation: Provide adequate general and local exhaust ventilation to maintain healthful working conditions.

Wear goggles or safety glasses. Other protective equipment such as gloves and approved dust respirators may be needed depending upon dust conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes	Flush with water to remove dust particles. If irritation persists, get medical attention.			
Skin	If a rash or persistent irritation or dermatitis occur, get medical advice before returning to work where wood dust is present.			
Inhalation	Not applicable.			

SPILL/LEAK CLEAN-UP PROCEDURES

Sweep or vacuum spills for recovery or disposal; avoid creating dust conditions. Provide good ventilation where dust conditions may occur. Place recovered wood dust in a container for proper disposal.

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YOUNG MANUFACTURING COMPANY, INC. P.O. BOX 167 BEAVER DAM, KY 42320-0167 PHONE 270-274-3306 FAX 270-274-9522

WARNING

THIS PACKAGE CONTAINS

WOOD DUST (For all Untreated Wood and Untreated Wood Products)

CAUTION!!

SAWING, SANDING OR MACHINING WOOD PRODUCTS CAN PRODUCE WOOD DUST WHICH CAN CAUSE A FLAMMABLE OR EXPLOSIVE HAZARD.

WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE AND SKIN IRRITATION. SOME WOOD SPECIES MAY CAUSE DERMATITIS AND/OR ALLERGIC RESPIRATORY EFFECTS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IRAC) HAS CLASSIFIED WOOD DUST AS A NASAL CARCINOGEN IN HUMANS.

*Avoid dust contact with ignition source.

*Sweep or vacuum dust for recovery or disposal.

*Avoid prolonged or repeated breathing of wood dust in air.

*Avoid dust contact with eyes and skin.

*FIRST AID: If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, call a physician.



MATERIAL SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Spectrum Adhesives Corporate 5611 Universal Drive, Memphis, TN 38118

EMERGENCY PHONE: 800-535-5053

Corporate: 901-795-1943 Customer Service: 800-454-4583

Product Name/Code: CP-0502

Issue Date: 07-05-2010

Section 2: HAZARDS IDENTIFICATION

HMIS Rating:

Health - 2 Fire - 0 Reactivity - 1 PP - C

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

EMERGENCY OVERVIEW

Appearance/Odor: Cloudy yellow liquid with sweetish odor.

CAUTION!

Will polymerize at high temperatures with some evolution of heat.

Hazardous polymerization may occur.

Overexposure may cause central nervous system depression. May cause irritation of nose, throat and lungs if allowed to become airborne.

May cause eye irritation.

May be harmful if swallowed.

NORTH AMERICAN EMERGENCY RESPONSE GUIDE. 2000. NO: 171

Potential Health Effects: See Section 11 for more information

Eye: May cause irritation on prolonged or repeated contact.

Skin: May cause irritation on prolonged or repeated contact.

Ingestion: May be harmful if swallowed.

Inhalation: Not expected to be harmful under normal conditions of use. However, overexposure may cause central nervous system depression. Also, if allowed to become airborne, may cause irritation of nose, throat and lungs.

98-00-0 Furfuryl Alcohol:

Can cause central nervous system depression. Signs and symptoms may include headache, dizziness, nausea, vomiting and drowsiness.

Medical Conditions Aggravated By Exposure:

May cause allergic skin reaction. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that preexisting respiratory and skin disorders may be aggravated by exposure.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)



50-00-0 Formaldehyde

May cause cancer. OSHA regulates formaldehyde as a potential human carcinogen. See the OSHA Formaldehyde Workplace Standard at 29CFR 1910.1048. Rats chronically exposed to 14 ppm formaldehyde contracted nasal cancer. The National Toxicology Program (NTP) has listed formaldehyde as a probable human carcinogen. The International Agency for Research on Cancer (IARC) has concluded formaldehyde is carcinogenic to humans.

Safe handling and use instructions are provided in this MSDS and in the OSHA Formaldehyde Workplace Standard at 29CFR1910.1048. OSHA has identified 0.5 ppm as the "Action Level". Please review and understand the guidance contained in this MSDS and refer to the OSHA Formaldehyde Standard for regulatory requirements that may be applicable to your operation and use.

For further information and a review of various studies, go to www.osha.gov/SLTC/formaldehyde, www.iarc.fr and other authoritative websites.

98-00-0 Furfuryl Alcohol

POSSIBLE CANCER HAZARD. May cause cancer based on animal data. This material has not been listed by NTP, classified by IARC nor regulated by OSHA as a carcinogen. May cause allergic skin reaction.

Potential Environmental Effects: See Section 12 for more information)

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

The ingredients listed below have been associated with one or more immediate and/or delayed * health hazards. Risk of damage and effects depends upon duration and level of exposure. Before using, handling, or exposure to these ingredients, read and understand the MSDS.

 Component
 CAS #
 % by Wt.

 Furfuryl Alcohol*
 98-00-0
 5.0 - 10.0

 Formaldehyde*
 50-00-0
 0.1 - 1.0

Section 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water. Get medical attention.

Skin Contact: In case of irritation, flush with water.

Inhalation: Move to fresh air.

Ingestion: If accidentally swallowed, dilute by drinking large quantities of water. If the individual is drowsy or unconscious, do not give anything by mouth. Immediately contact poison control center or hospital emergency room for advice on whether to induce vomiting of for any other additional treatment directions.

Section 5: FIRE FIGHTING MEASURES

Flash point Not applicable
Lower explosion limit Not applicable
Upper explosion limit Not applicable
Autoignition temperature Not applicable

Will not burn unless water has evaporated. Dried material may burn. In case of fire, water should be used to keep fire-exposed containers cool.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8.



Environmental Precautions: This material is a water pollutant. Do not let spilled or leaking material enter Waterways or sewers.

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. For large spills, use water spray to disperse vapors and flush spill area.

Section 7: HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Wash thoroughly after handling. Always use appropriate Personal Protective Equipment (PPE).

INHALATION: Avoi

Avoid prolonged or repeated breathing of vapor.

SKIN:

Avoid prolonged or repeated contact with skin and clothing.

EYES:

Avoid prolonged or repeated contact with eyes.

Storage

Keep container closed.

Not harmed by freezing, but thaw frozen resin slowly and stir before using.

Store in a cool place. High temperatures shorten storage life. Urea formaldehyde resin thickens with age. Rotate stock in storage to use oldest first.

Limited storage life - refer to product specifications.

Solubility in water of urea resins can vary from infinite to insoluble depending on manufacturing procedure and age. Warm water helps in washing up resins with limited solubility.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

98-00-0	Furfuryl Alcohol			
ACGIH TLV	8-hr TWA	10 ppm	40 mg/m ³	Skin
	STEL (15 min)	15 ppm	60 mg/m ³	
OSHA PEL	8-hr TWA	50 ppm	200 mg/m ³	Skin
	Remanded TWA	10 ppm	40 mg/m ³	Skin; 1989 PEL remanded, but in effect in some states
	Remanded STEL	15 ppm	60 mg/m^3	
50-00-0	Formaldehyde		_	
ACGIH TLV	Ceiling	0.3 ppm	0.37 mg/m ³	A2 - Suspected Human
		\$75.75		Carcinogen; SEN
OSHA PEL	8-hr TWA	0.75 ppm	0.9 mg/m^3	
	STEL (15 min)	2 ppm	2.5 mg/m^3	

Engineering Controls: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate. If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

Personal Protection: Where air contaminants can exceed acceptable criteria, use NIOSH (42 CFR Part 84) approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color: Cloudy yellow Odor: Sweetish

Odor Threshold: Not available. Physical State: Liquid. pH: 7.2 – 8.2 @25°C (77°F)

Viscosity: 400 - 1,200 cPs @ 25°C (77°F) Brookfield

Freezing Point: Not available.

Boiling Point, 760 mm Hg: 102°C (216°F) Typical % solids: Approx. 63.00% (m)

Flash Point: Not available.

Evaporation Rate: Approx. 0.3 (Butyl Acetate = 1)

Flammability (solid, gas): Not applicable. Upper Flammability Limit: Not available Lower Flammability Limit: Not available

Vapor Pressure: Approx. 22 mm Hg @ 25°C (77°F)

Vapor Density: Not available Specific Gravity: 1.272 – 1.280 Solubility (water): See storage section.

Partition Coefficient (n-octanol/water): Not available

Auto-ignition Temperature: Not available. Percent Volatile, wt. %: Not available.

Volatile Organic Compound (VOC) content, wt. %: Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Normally stable, but will polymerize at high temperatures with some evolution of heat.

Conditions to Avoid: Not available. Incompatible Materials: Not available.

Hazardous Decomposition Products: CO, CO2, aldehydes (including formaldehyde), hydrogen cyanide, particulate matter and

other organic compounds by thermal decomposition in air.

Possibility of Hazardous Reactions: Hazardous polymerization may occur.

Section 11: TOXICOLOGY INFORMATION

INGESTION: A similar product was found to be a toxic substance when tested as described

in 16 CFR Part 1500.3 (c)(1) and (2); LD50=50-500mg/kg.

INHALATION: A similar product was found to be non-toxic by inhalation when tested as

described in 16 CFR Part 1500.3 (c)(1) and (2).

SKIN A similar product was found to be non-toxic dermally when tested as described

ABSORPTION: in 16 CFR Part 1500.3 (c)(1) and (2).

SKIN: A similar product was not a primary irritant (primary skin irritation index less

than 5.0/8.0) when tested as described in 16 CFR Part 1500.41.

EYES: A similar product was slightly irritating when tested as described in 16 CFR

Part 1500.42.

98-00-0 Furfuryl Alcohol

LC50: Not available

LD50: Oral-rat= 177 mg/kg (Sax); Skin-rabbit= 400 mg/kg (RTECS)

50-00-0 Formaldehyde LC50: rat=0.59 mg/l (Sax)

LD50: Oral-rat= 800 mg/kg (Merck); Skin-rabbit= 270 mg/kg (Sax)

Section 12: ECOLOGICAL INFORMATION



No data for ecotoxicity has been found. Effects are expected to be minimal. The material is a soil mobile liquid initially which will solidify on aging. Biodegradation is expected to be very slow; bioaccumulation negligible.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Recover free liquid. Absorb residue and dispose of in accordance with federal, state and local regulations.

Section 14: TRANSPORTATION INFORMATION

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

US DOT (ground)

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Formaldehyde)

UN/NA number 3082 Class 9 Packing group III Label 9

RQ Ingredients Formaldehyde

Canadian TDG (ground) Regulation: Non regulated

Section 15: REGULATORY INFORMATION

OSHA Hazards Communication Standard 29CFR1910.1200

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

TSCA: All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

SARA 313 Information

SARA Title III: Section 311/312

Immediate health hazard Delayed health hazard Reactivity hazard

SARA Title III: Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

Formaldehyde 50-00-0 0.90%

WHMIS: Canadian Workplace Hazardous Material Information System

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

Class D1B

Class D2A

Class D2B

Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory. None required.

Section 16: OTHER INFORMATION User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

DISCLAIMER

Spectrum Adhesives, inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. SPECTRUM ADHESIVES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, SPECTRUM ADHESIVES, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.



MATERIAL SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION

Spectrum Adhesives Corporate 5611 Universal Drive, Memphis, TN 38118

EMERGENCY PHONE: 800-535-5053

Corporate: 901-795-1943 Customer Service: 800-454-4583

Product Name/Code: CP-2004

Issue Date: 07-12-2010

Section 2: HAZARDS IDENTIFICATION

HMIS Rating:

Health - 2 Fire - 1 Reactivity - 0 PP - C

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

EMERGENCY OVERVIEW

Appearance/Odor: Tan to brown dry powder with little or no odor

Combustible dust when finely divided or suspended in air.

May be harmful if inhaled.

May cause allergic skin and respiratory reactions.

Skin irritant. Eye irritant.

Potential Health Effects: See Section 11 for more information

Eye: Causes irritation.

Skin: Causes irritation.

Ingestion: Not expected to be harmful under normal conditions of use. If accidentally swallowed, burns or irritation to mucous membranes, esophagus or GI tract can result.

Inhalation: May be harmful if inhaled. Dust or vapor may cause irritation of nose, throat and lungs.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Wood Flour

POTENTIAL CANCER HAZARD. Wood dust has been classified by IARC as a carcinogen to humans (Group 1). This classification is based primarily on IARC's evaluation of increased risk of occurrence of adenocarcinomas in the nasal cavities and paranasal sinuses associated with exposure to wood dust. Wood dust is not listed by NTP nor regulated by OSHA as a carcinogen. Depending on species, may cause allergic skin and respiratory reactions.

Potential Environmental Effects: See Section 12 for more information)

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

The ingredients listed below have been associated with one or more immediate and/or delayed (*) health hazards. Risk of damage and effects depends upon duration and level of exposure. Before using or handling, read and understand the MSDS.

Component Aluminum Sulfate Wood Flour* CAS # 10043-01-3

% by Wt.

Section 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to insure water contact with entire surface of eyes and lids. Call a physician.

Skin Contact: Flush with plenty of water. Remove contaminated clothing. Call a physician if irritation persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Call a

physician.

Ingestion: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions..

Section 5: FIRE FIGHTING MEASURES

Flash point: Not applicable

Lower explosion limit: Not applicable Upper explosion limit: Not applicable Autoignition temperature: Not applicable

Will burn.

Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastic Industries," if this material is to be reduced to or collected as a powder.

Suitable Extinguishing Media: Water should be used to keep fire-exposed containers cool.

Unsuitable Extinguishing Media: Not available

Products of Combustion: Not available

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: This material is a water pollutant. Do not let spilled or leaking material enter

waterways.

Methods for Containment: Sweep (scoop) up.

Methods for Clean-Up: Remove to a chemical disposal area.

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Wash thoroughly after handling.

Inhalation: Avoid breathing dust or vapor. Use with adequate ventilation.

Skin: Avoid contact with skin and clothing.

Eyes: Avoid contact with eyes.

Storage

Keep container closed. Store in a cool, dry place. Keep away from acids.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Aluminum Sulfate 10043-01-3

OSHA 1989 PEL remanded, but in effect in some states

ACGIH TLV: Soluble salt, as A1 2 mg/m3 TWA

OSHA PEL: NONE ESTABLISHED

REMANDED PEL: Soluble salt (as A1) 2 mg/m3 TWA

Wood Flour

OSHA 1989 PEL remanded, but in effect in some states ACGIH TLV: TWA-5 mg/m³, STEL-10 mg/m³ (softwood) OSHA PEL:TWA-15 mg/m³ (total dust); 5 mg/m³ (respirable)



REMANDED PEL: TWA-5 mg/m³ STEL-10 mg/m³ (all soft and hard woods) OTHER: ACGIH TLV: TWA-1 mg/m³ (certain hardwoods)

Engineering Controls: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate. If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

Personal Protection: Where air contaminants can exceed acceptable criteria, use NIOSH (42 CFR Part 84) approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color: Tan to brown Odor: Little or none

Odor Threshold: Not available. Physical State: Dry powder

pH: ~5.7-6.7

Freezing Point: Not available Boiling Point: Not available Flash Point: Not available Evaporation Rate: Not available.

Flammability (solid, gas): Not applicable. Upper Flammability Limit: Not available Lower Flammability Limit: Not available

Vapor Pressure: Not available Vapor Density: Not available Specific Gravity: Not available Solubility (water): Appreciable

Partition Coefficient (n-octanol/water): Not available

Auto-ignition Temperature: Not available. Percent Volatile, wt. %: Not available

Volatile Organic Compound (VOC) content, wt. %: Not available

Section 10: STABILITY AND REACTIVITY

Stability: Normally stable as defined in NFPA 704-12 (4-3.1).

In common with most organic materials, this product should be treated as a combustible dust in the finely divided and suspended state.

Conditions to Avoid: Not available

Incompatible Materials: Alkalies and their carbonates; lead and silver salts.

Hazardous Decomposition Products: IIC1 and ammonia

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Section 11: TOXICOLOGY INFORMATION

Aluminum Sulfate 10043-01-3

LC50: Not available

LD50: orl-mus=6207 mg/kg (Sax)

Wood Flour

LC50: Not available LD50: Not available



Section 12: ECOLOGICAL INFORMATION

Not determined.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Dispose of in accordance with federal, state and local regulations.

Section 14: TRANSPORTATION INFORMATION

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

DOT

See above

Canadian TDG (ground)

Not Determined.

Section 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard 29CFR1910.1200

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

TSCA: All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

SARA 313 Information

SARA Title III: Section 311/312 Immediate health hazard Delayed health hazard

SARA Title III Section 313 and 40 CFR Part 372

This product contains the following toxic chemical (s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372

None required per SARA TITLE III SECTION 313.

WHMIS: Canadian Workplace Hazardous Material Information System

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR. CLASS D, DIV 2A, 2B

100 VIII 100 III 100 VIII 100

Canadian Environmental Protection Act (CEPA)
All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

National Pollutant Release Inventory (NPRI)

This product contains the following chemical (s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

None required.

Section 16: OTHER INFORMATION

User's Responsibility



The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Instruct your workers to handle this product properly.

DISCLAIMER

Spectrum Adhesives, inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. SPECTRUM ADHESIVES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, SPECTRUM ADHESIVES, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.



MSDS Name: CATALYST A MSDS Number: 004278800 Revision Date: Page Number: 110904 1 of 4 SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Product Name: CATALYST A NONE Product Name: CAS Number: HMIS Hazard Rating: Health: 3 Fire: 0 Reactivity: 0 Franklin International 2020 Bruck Street Columbus OH 43207 Company Identification: Franklin Technical Services (800) 877-4583 (614) 445-1493 Franklin Security (614) 445-1300 (800) 424-9300 (703) 527-3887 Contact: Telephone/Fax: Emergency Phone (24 Hour): Chemtrec (24 Hour): Chemtrec International: Product Class Product Use: Product Code: WATER SOLUTION, ALUMINUM SALT CATALYST A SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS
Hazardous Ingredients CAS Number Percen Aluminum Chloride 7446-70-0 28.00 SECTION 3 - HAZARD IDENTIFICATION EMERGENCY OVERVIEW:
DANGER: CORROSIVE LIQUID. CAUSES EYE AND SKIN BURNS. CAUSES
RESPIRATORY TRACT IRRITATION. Do not get in eyes, on skin, on
clothing. Avoid breathing vapor. Keep container closed. Use only with
adequate ventilation. Use personal protective equipment such as
chemically resistant gloves, apron, and face shield when handling. In
event of spill or other emergency, do not allow drainage into public
drains or sewers. Neutralize with an alkaline material and dispose of
in accordance with federal, state, and local regulations.
ROUTES OF ENTRY:
Ingestion: Yes
Inhalation: Yes
Skin: Yes
Eye: Yes
INHALATION: Eye: INHALATION: INHALATION:
Acute: Nose and throat irritation. Chronic: Drying of mucous membrane.
INGESTION:
Acute: May burn mouth, throat, and stomach. Chronic: Headache.
SKIN: Acute: Irritation. Allergic skin rash. Chronic: Dermatitis. EYE:
Substance may cause moderate eye irritation.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Eye and skin disorders, impaired pulmonary functions.
CARCINOGENICITY:
IARC: No
NTP: No
OSHA: No
REPRODUCTIVE TOXICITY:
None anticipated based on product formula.
TARGET ORGANS:
None identified based on product formula.

SECTION 4 - FIRST AID MEASURES

MSDS Name: CATALYST A MSDS Number: 004278800 Revision Date: 110904 Page Number: 2 of 4 INHALATION:
Remove patient to fresh air,if discomfort persists seek medical
attention.
INGESTION: INGESTION:
Do not induce vomiting. Give water and milk of magnesia.
SKIN:
Wash with soap and water. Contact a physician if irritation develops or persists.
EYE: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention. SECTION 5 - FIRE-FIGHTING MEASURES
Flammability Class (OSHA) IIIB
Flash Point: Not Applicab
Explosive Range: Not Applicab Not Applicable Not Applicable EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, or dry chemical when fighting fires involving this product.
HAZARDOUS COMBUSTION PRODUCTS:
Thermal decomposition may produce hydrochloric acid vapors.
FIRE FIGHTING PROCEDURES:
Wear a NIOSH approved self-contained breathing apparatus. SECTION 6 - ACCIDENTAL RELEASE MEASURES CONTAINMENT TECHNIQUES:
Use inert absorbent to dike the spill. Keep away from drains.
CLEAN-UP:
If product has dried, scrape up and place in an approved container.
If possible pump liquid into an approved container or spread absorbent over spill and shovel product/absorbent mixture into an approved container.
If product has dried scrape up and place in an approved container. container. If product has dried scrape up and place in an approved container.

EMERGENCY MEASURES:

Isolate hazard area. Keep unnecessary and unprotected personnel from entering area. Wear all appropriate personal protection equipment (PPE) (see Section 8). SECTION 7 - HANDLING AND STORAGE HANDLING:
Wash thoroughly after handling.
Empty drums should be completely drained, properly bunged and promptly returned to a reconditoner, or properly disposed of.
Keep lid closed when not in use.
Wash hands before eating.
Remove contaminated clothing and wash before reuse.
Follow all MSDS/label precautions even after container is emptied.
Containers may retain product residues and vapors.
Avoid prolonged or repeated contact with the skin.
Avoid breathing vapors from heated material.
STORAGE:
Store in air-tight acid-proof containers. Store in air-tight acid-proof containers. PRECAUTIONARY STATEMENT:
Keep out of the reach of children. SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION
Occupational Exposure Limits
ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL Aluminum Chloride 2.00 mg/M3 N/est

N/est

N/est

N/est

MSDS Name: CATALYST A MSDS Number: 004278800 Revision Date: 110904 Page Number: 3 of 4 ENGINEERING CONTROLS:
Use local exhaust as needed to maintain occupational exposure limits.
Maintain standard plant ventilation. Maintain standard plant ventilation.

OTHER:
Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.

RESPIRATORY PROTECTION:
Where exposure limits are exceeded, select a NIOSH approved respirator with appropriate protection factor and cartridge for the specific contaminents. Follow requirements for respiratory protection in OSHA 1910.134.

EYK PROTECTION:
Chemical splash goggles (ANSI Z87.1 or approved equivalent).

SKIN PROTECTION: Chemical splash goggles (ANSI Z87.1 or approved equivalent). SKIN PROTECTION: Where skin contact can occur, wear impervious gloves. SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES LIQUID NONE MILD ACID ODOR SOLUABLE <1.0 220.°F Faster than n-Butyl Acetate Appearance/Color: Odor: Odor: Solubility (in water): pH Value: Boiling Range/Point: Evaporation Rate: 72.% 1.29 Not Applicable % Volatile: Specific Gravity: VOC: SECTION 10 - STABILITY AND REACTIVITY
Stability:
Hazardous Polymerization:

AND REACTIVITY
This product is stable
Hazardous polymerization will not occur CONDITIONS TO AVOID: None.
INCOMPATIBLITY:
Strong bases and cyanides.
HAZARDOUS DECOMPOSITION PRODUCTS:
Hydrochloric acid vapors when heated to decomposition. SECTION 11 - TOXICOLOGICAL INFORMATION This information is not available at this time. SECTION 12 - ECOLOGICAL INFORMATION This formulation has not been tested for environmental effects. SECTION 13 - DISPOSAL CONSIDERATIONS WASTE DISPOSAL:
Disposal of this product must comply with all applicable federal, state and local regulations.
CONTAINER DISPOSAL:
Disposal of this container should comply with all applicable federal, state and local regulations. WASTE DISPOSAL: SECTION 14 - TRANSPORT INFORMATION UN Number
UN Pack Group
UN Class
ICAO/IATA Class
IMDG Class
Shipping Name ALUMINIUM CHLORIDE SOLUTION

MSDS Name: CATALYST A MSDS Number: 004278800

Revision Date: 110904
Page Number: 4 of 4

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substances Control Act Inventory):
All components of this product are listed on the TSCA inventory except as exempted.

SECTION 16 - OTHER INFORMATION

DISCLAIMER: While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.

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MSDS Name: Deckbond H MSDS Number: 013062000 Revision Date: 061404 Page Number: 1 of 4 SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Product Name:
CAS Number:
HMIS Hazard Rating:

Deckbond HP none
Health: 1 Fire: 1 Reactivity: 0 none Health: 1 Fire: 1 Reactivity: 0 Company Identification: Franklin International 2020 Bruck Street Columbus OH 43207 Franklin Technical Services (800) 877-4583 (614) 445-1493 Franklin Security (614) 445-1300 (800) 424-9300 (703) 527-3887 Contact: Telephone/Fax: Emergency Phone (24 Hour): Chemtrec (24 Hour): Chemtrec International: Product Class Product Use: Product Code: CROSSLINK POLYVINYL ACETATE wood glue Industrial Adhesives & Sealants SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS CAS Number Percen vinyl acetate 108-05-4 0.60 FORMALDEHYDE 50-00-0 OSHA PELs & ACGIH TLVs are listed in Section 8 where applicable. SECTION 3 - HAZARD IDENTIFICATION EMERGENCY OVERVIEW: EMERGENCY OVERVIEW:
Light brown water-based adhesive. Slippery in the wet state.
ROUTES OF ENTRY:
Ingestion: Yes
Inhalation: Yes
Skin: Yes
Eye: Yes
THALATION: Skin: Yes
Eye: Yes
INHALATION:
Vapors and/or aerosols which may be formed at elevated temperature may be irritating to eyes and respiratory tract.
No reported incidents of adverse health affects resulting from inhalation of vapors at room temperature.
INGESTION:
No hazard expected in normal industrial use. Ingestion is not a likely route of exposure.
SKIN:
Prolonged or repeated skin contact can cause irritation. Prolonged or repeated skin contact can cause irritation.

EYE: EYE:
Substance may cause moderate eye irritation.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
None identified.
CARCINOGENICITY:
IARC: No
NTP: No
OSHA: No
DSHA: NO
DEPRODUCTIVE TOYLCITY: REPRODUCTIVE TOXICITY:
This product has not been evaluated for reproductive toxicity. SECTION 4 - FIRST AID MEASURES INHALATION:
Remove patient to fresh air,if discomfort persists seek medical

MSDS Name: Deckbond HP MSDS Number: 013062000 Revision Date: 061404 Page Number: 2 of 4 Call poison control center immediately. Follow their specific instructions. Do not induce vomiting. Instructions. Do not induce vomiting. SKIN:
Wash with soap and water. Contact a physician if irritation develops or persists.
EYE:
Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention. SECTION 5 - FIRE-FIGHTING MEASURES
Flammability Class (OSHA) IIIB
Flash Point: Not Applicable
Explosive Range: Not Applicable EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, water spray, or ABC dry chemical when fighting fires involving this product.
HAZARDOUS COMBUSTION PRODUCTS:
Oxides of carbon.
FIRE FIGHTING PROCEDURES:
Wear a NIOSH approved self-contained breathing apparatus. SECTION 6 - ACCIDENTAL RELEASE MEASURES CONTAINMENT TECHNIQUES:
Use inert absorbent to dike the spill. Keep away from drains.
CLEAN-UP:
If possible pump liquid into an approved container or spread absorbent over spill and shovel product/absorbent mixture into an approved container. If product has dried scrape up and place in an approved container. SECTION 7 - HANDLING AND STORAGE HANDLING: Empty drums should be completely drained, properly bunged and promptly returned to a reconditoner, or properly disposed of. Use only in well ventilated area. STORAGE: STORAGE: Keep from freezing. Store at temperatures between 50 F and 90 F. PRECAUTIONARY STATEMENT: Keep out of the reach of children. SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION
Occupational Exposure Limits
ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL vinyl acetate 10.00 PPM N/est 15.00 PPM N/est N/est FORMALDEHYDE N/est 0.30 PPM N/est 2.00 PPM 0.75 PPM ENGINEERING CONTROLS: Use local exhaust as needed to maintain occupational exposure limits. OTHER: OTHER:
Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.
RESPIRATORY PROTECTION:
Where exposure limits may be exceeded select a NIOSH approved respirator with appropriate Protection Factor and cartridge for the specific contaminents. Follow requirements for respiratory protection in OSHA 1910.134.

MSDS Name: Deckbond H MSDS Number: 013062000

Revision Date: 061404 Page Number: 3 of 4

EYE PROTECTION: Chemical splash goggles (ANSI Z87.1 or approved equivalent). SKIN PROTECTION:

Where skin contact can occur, wear impervious gloves.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: Appearance/Color: Odor:

Odor: Solubility (in water): pH Value: Boiling Range/Point: Evaporation Rate:

% Volatile: Specific Gravity: VOC:

Liquid Light Brown Mild Dispersible in water 5.7

5.7 210.°F Slower than n-Butyl Acetate

46.% 1.11 0.095 lb/gal

SECTION 10 - STABILITY AND REACTIVITY
Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

CONDITIONS TO AVOID:

NONE.
INCOMPATIBLITY:
Strong acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS:
Oxides of carbon may be released during combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and chronic health effects are not expected as long as good industrial hygeine and safety precautions are followed.

SECTION 12 - ECOLOGICAL INFORMATION

This formulation has not been tested for environmental effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
Disposal of this product must comply with all applicable federal, state and local regulations.
CONTAINER DISPOSAL:
Disposal of this container should comply with all applicable federal, state and local regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number UN Pack Group UN Class ICAO/IATA Class IMDG Class Shipping Name

none N/A Nonhaz Nonhazardous Nonhazardous Nonhazardous

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

SECTION 15 - REGULATORY INFORMATION

SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:
Chemical Name CAS Number Percent

MSDS Name: Deckbond HP
MSDS Number: 013062000

Revision Date: 061404
Page Number: 4 of 4

vinyl acetate 108-05-4 0.60

FORMALDEHYDE 50-00-0 0.10

-PROP 65 (CARCINOGEN)
WARNING: This product contains a chemical known to the state of California to cause cancer.
Chemical Name CAS Number Percent

FORMALDEHYDE 50-00-0 0.10

TSCA (Toxic Substances Control Act Inventory):
All components of this product are listed on the TSCA inventory except as exempted.

SECTION 16 - OTHER INFORMATION

DISCLAIMER: While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.

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MSDS Name: Assembly High Tack
MSDS Number: 002213800
Revision Date: 022103
Page Number: 1 of 3
SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Product Name:
CAS Number:
HMIS Hazard Rating:
Assembly High Tack none
Health: 1 Fire: 1 Reactivity: 0
Product Name:
CAS Number:
HMIS Hazard Rating:
                                                            Franklin International
2020 Bruck Street
Columbus OH 43207
Company Identification:
                                                            Franklin Technical Services
(800) 877-4583 (614) 445-1493
Franklin Security
(614) 445-1300
(800) 424-9300
(703) 527-3887
Contact:
Telephone/Fax:
Emergency Phone (24 Hour):
Chemtrec (24 Hour):
Chemtrec International:
                                                            ALIPHATIC RESIN EMULSION wood glue 2213
Product Class
Product Use:
Product Code:
                                                            Industrial Adhesives & Sealants
Division:
SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS
Hazardous Ingredients CAS Number Percent Product contains no hazardous ingredients or they are below reportable levels.
OSHA PELs & ACGIH TLVs are listed in Section 8 where applicable.
SECTION 3 - HAZARD IDENTIFICATION
EMERGENCY OVERVIEW:
Yellow colored water-based adhesive. Slippery in the wet state.
ROUTES OF ENTRY:
Ingestion: Yes
Inhalation: Yes
Skin: Yes
Eye: Yes
INMALATION:
Vapors and/or aerosols which may be formed at elevated temperature may be irritating to eyes and respiratory tract.
No reported incidents of adverse health affects resulting from inhalation of vapors at room temperature.
INGESTION:
No hazard expected in normal industrial use. Ingestion is not a likely route of exposure.
SKIN:
Prolonged or repeated skin contact can cause irritation.
SKIN:
Prolonged or repeated skin contact can cause irritation.
EYE:
Substance may cause moderate eye irritation.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
None identified.
CARCINOGENICITY:
LARC: No
NTP: No
OSHA: NO
 OSHA: NO REPRODUCTIVE TOXICITY:
This product has not been evaluated for reproductive toxicity.
 SECTION 4 - FIRST AID MEASURES
 INHALATION:
Remove patient to fresh air,if discomfort persists seek medical
attention.
INGESTION:
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MSDS Name: Assembly High Tack MSDS Number: 002213800 Revision Date: Page Number: 022103 2 of 3 l poison control center immediately. Follow their specific tructions. Do not induce vomiting. Call poison control center immediately. Follow their specific instructions. Do not induce vomiting. SKIN:
Wash with soap and water. Contact a physician if irritation develops or persists. $_{
m EIS}$: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention. SECTION 5 - FIRE-FIGHTING MEASURES
Flammability Class (OSHA)
Flash Point:
Explosive Range:

Not Applicab
Not Applicab Not Applicable Not Applicable EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, water spray, or ABC dry chemical when fighting fires involving this product.
HAZARDOUS COMBUSTION PRODUCTS:
Oxides of carbon.
FIRE FIGHTING PROCEDURES:
Wear a NIOSH approved self-contained breathing apparatus. SECTION 6 - ACCIDENTAL RELEASE MEASURES CONTAINMENT TECHNIQUES:
Use inert absorbent to dike the spill. Keep away from drains.
CLEAN-UP:
If possible pump liquid into an approved container or spread absorbent over spill and shovel product/absorbent mixture into an approved container. If product has dried scrape up and place in an approved container. SECTION 7 - HANDLING AND STORAGE Empty drums should be completely drained, properly bunged and promptly returned to a reconditioner, or properly disposed of.
Use only in well ventilated area.

STORAGE:

Keen from STORAGE:
Keep from freezing.
Store at temperatures between 50 F and 90 F.
PRECAUTIONARY STATEMENT:
Keep out of the reach of children. SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION
Occupational Exposure Limits
ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL ENGINEERING CONTROLS:
Use local exhaust as needed to maintain occupational exposure limits.
OTHER:
Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.
RESPIRATORY PROTECTION:
Where exposure limits may be exceeded select a NIOSH approved respirator with appropriate Protection Factor and cartridge for the specific contaminents. Follow requirements for respiratory protection in OSHA 1910.134.
EVER PROTECTION: EYE PROTECTION:
Chemical splash goggles (ANSI Z87.1 or approved equivalent).
SKIN PROTECTION: Where skin contact can occur, wear impervious gloves. SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Color:

MSDS Name: Assembly High Tack MSDS Number: 002213800

Revision Date: Page Number: 3 of

Mild Dispersible in water 4.8 210.°F

Odor: Solubility (in water): pH Value: Boiling Range/Point: Evaporation Rate:

Slower than n-Butyl Acetate

% Volatile: Specific Gravity: VOC:

54.1% 1.10 0.085 LB/GAL

SECTION 10 - STABILITY AND REACTIVITY
Stability:
Hazardous Polymerization:

This product is stable
Hazardous polymerization will not occur

CONDITIONS TO AVOID:

None.
INCOMPATIBLITY:

INCOMPATIBLITY:
Strong acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS:
Oxides of carbon may be released during combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and chronic health effects are not expected as long as good industrial hygeine and safety precautions are followed.

SECTION 12 - ECOLOGICAL INFORMATION

This formulation has not been tested for environmental effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
Disposal of this product must comply with all applicable federal, state and local regulations.
CONTAINER DISPOSAL:
Disposal of this container should comply with all applicable federal, state and local regulations.

SECTION 14 - TRANSPORT INFORMATION

none Nonhaz

UN Number UN Pack Group UN Class ICAO/IATA Class IMDG Class Nonhazardous Nonhazardous Nonhazardous Shipping Name

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substances Control Act Inventory):
All components of this product are listed on the TSCA inventory except as exempted.

SECTION 16 - OTHER INFORMATION

DISCLAIMER:

DISCLAIMER: While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.

MSDS Name: MULTIBOND 2000 MSDS Number: 004141800 Revision Date: 061404 Page Number: 1 of 3 SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Product Name: MULTIBOND 2000 CAS Number: NONE Hazard Rating: Health: 1 Fire: 1 Reactivity: 0 Franklin International 2020 Bruck Street Columbus OH 43207 Company Identification: Franklin Technical Services (800) 877-4583 (614) 445-1493 Franklin Security (814) 445-1300 (800) 424-9300 (703) 527-3887 Contact: Telephone/Fax: Emergency Phone (24 Hour): Chemtrec (24 Hour): Chemtrec International: Product Class Product Use: Product Code: CROSSLINK POLYVINYL ACETATE PVA/ADHESIVE 4137 Industrial Adhesives & Sealants Division: SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS
Hazardous Ingredients CAS Number Percent
Product contains no hazardous ingredients or they are below reportable levels. OSHA PELs & ACGIH TLVs are listed in Section 8 where applicable. SECTION 3 - HAZARD IDENTIFICATION EMERGENCY OVERVIEW: Cream colored water-based adhesive. Slippery in the wet state. ROUTES OF ENTRY: INHALATION: Yes SKIN: NO EYE: Yes INGESTION: Yes INGESTION: Yes INHALATION:
Vapors and/or aerosols which may be formed at elevated temperature may be irritating to eyes and respiratory tract.
No reported incidents of adverse health affects resulting from inhalation of vapors at room temperature. Prolonged or repeated skin contact can cause irritation.

EYE: EYE:
Substance may cause moderate eye irritation.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Preexisting skin and respiratory conditions.
CARCINOGENICITY:
IARC: No
NTP: No
OSHA: No NTF: NO
OSHA: NO
REPRODUCTIVE TOXICITY:
This product has not been evaluated for reproductive toxicity.
TARGET ORGANS:
Eyes and skin. SECTION 4 - FIRST AID MEASURES INHALATION:
Remove patient to fresh air,if discomfort persists seek medical
attention.

Call poison control center immediately. Follow their specific

MSDS Name: MULTIBOND 2000 MSDS Number: 004141800 Revision Date: Page Number: 061404 2 of 3 instructions. SKIN:
Wash with soap and water. Contact a physician if irritation develops or persists.

EYE: EYE: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention. SECTION 5 - FIRE-FIGHTING MEASURES
Flammability Class (OSHA) IIIB
Flash Point: Not Applicable
Explosive Range: Not Applicable EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, water spray, or ABC dry chemical when fighting fires involving this product.
HAZARDOUS COMBUSTION PRODUCTS:
Oxides of carbon.
FIRE FIGHTING PROCEDURES:
Wear a NIOSH approved self-contained breathing apparatus. SECTION 6 - ACCIDENTAL RELEASE MEASURES CONTAINMENT TECHNIQUES:
Use inert absorbent to dike the spill. Keep away from drains.
CLEAN-UP:
If possible pump liquid into an approved container or spread absorbent over spill and shovel product/absorbent mixture into an approved container. If product has dried scrape up and place in an approved container. SECTION 7 - HANDLING AND STORAGE Empty drums should be completely drained, properly bunged and promptly returned to a reconditoner, or properly disposed of. Use only in well ventilated area.

STORAGE: STORAGE: Store at temperatures between 50 F and 90 F. PRECAUTIONARY STATEMENT: For industrial use only. SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION Occupational Exposure Limits ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL ENGINEERING CONTROLS:
Use local exhaust as needed to maintain occupational exposure limits.
OTHER:
Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.
RESPIRATORY PROTECTION:
Where exposure limits may be exceeded select a NIOSH approved respirator with appropriate Protection Factor and cartridge for the specific contaminents. Follow requirements for respiratory protection in OSHA 1910.134.
EYE PROTECTION: EYE PROTECTION Chemical splash goggles (ANSI Z87.1 or approved equivalent).
SKIN PROTECTION: Where skin contact can occur, wear impervious gloves. SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
Form: LIQUID
Appearance/Color: CREAM Form:
Appearance/Color:
Odor: SOLUBLE IN WATER Solubility (in water):

MSDS Name: MULTIBOND 2000 MSDS Number: 004141800

Revision Date: 061404 Page Number: 3 of 3

. . . .

pH Value: Boiling Range/Point: Evaporation Rate:

3. 210.°F Slower than n-Butyl Acetate

% Volatile: Specific Gravity: VOC:

52.% 1.09 0.037 LBS/GAL

SECTION 10 - STABILITY AND REACTIVITY
Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBLITY:
Strong acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS:
Oxides of carbon may be released during combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and chronic health effects are not expected as long as good industrial hygeine and safety precautions are followed.

SECTION 12 - ECOLOGICAL INFORMATION

This formulation has not been tested for environmental effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
Disposal of this product must comply with all applicable federal, state and local regulations.
CONTAINER DISPOSAL:

Disposal of this container should comply with all applicable federal, state and local regulations.

SECTION 14 - TRANSPORT INFORMATION

NONE N/A NONHAZ

UN Number
UN Pack Group
UN Class
ICAO/IATA Class
IMDG Class
Shipping Name

NONHAZARDOUS NONHAZARDOUS NONHAZARDOUS

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substances Control Act Inventory):
All components of this product are listed on the TSCA inventory except as exempted.

SECTION 16 - OTHER INFORMATION

DISCLAIMER: While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.

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KOP-COAT, INC PROTECTION PRODUCTS 5137 SOUTHWEST AVENUE ST. LOUIS MO 63110

EMERGENCIES	
HEALTH/SPILLS:	
CHEMTREC ASSISTANCE:	800-424-9300
CHEMTREC OUTSIDE US:	703-527-3887
CANUTEC	613-996-6666

1 PRODUCT IDENTIFICATION

PRODUCT NAME: Woodlife 1 1 1
PRODUCT USE:: Wood preservative
APPEARANCE:: Clear liquid with hydrocarbon odor
CAS NUMBER.:: Mixture
SYNONYMS...: None

REVISION...: 2 DATE.....: 11/12/03 MSDS NUMBER: 12982

2 HAZARDOUS INGREDIENTS	
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HAZARDOUS COMPONENT	REG AGENCY	PPM	NOTES	MG/M3	NOTES
Complex combination of hydrocarbons CAS NUMBER:TRADE SECRET-C PERCENT BY WGT: 1 TO 5	OSHA PEL	-		2 2	18
Co-solvent		(None	establishe	d.)	

Co-solvent CAS NUMBER: TRADE SECRET-CO PERCENT BY WGT: 5 TO 10

(None established.)

Tebuconazole CAS NUMBER:107534-96-3 PERCENT BY WGT: < 1

(None established.)

3-iodo-2-propynyl butyl carbamate
CAS NUMBER:55406-53-6
PERCENT BY WGT: < 1

(None established.)

Propiconazole CAS NUMBER:60207-90-1 PERCENT BY WGT: < 1

Naphtha, Heavy Hydro-treated CAS NUMBER:64742-48-9 PERCENT BY WGT: 85 TO 90 ACGIH TLV OSHA PEL 034

ACGIH TLV OSHA PEL Ketones, Mixture CAS NUMBER:68990-20-5 PERCENT BY WGT: 1 TO 5

18) Exposure limits are for paraffin wax 33) Exposure limits are for diisobutyl ketone. 034) Exposure limits are for stoddard solvent.

3 HAZARDS IDENTIFICATION

EYE: Contact with liquid may cause eye irritation if not promptly rinsed from eyes.

3 HAZARDS IDENTIFICATION

SKIN: Contact with liquid may cause moderate skin irritation. Repeated or prolonged contact with the skin c a result in defatting and drying of the skin which may result in skin irritat; a and dermatitis.

INHALATION: May cause irritation to nose, throat and respiratory tract. Excessive exposure to solvents may cause central nervous system depression, including headache, dizziness, drowsiness or nausea.

INGESTION: May cause vomiting, diarrhea and depressed respiration. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which may be fatal.

Individuals with pre-existing disease in or a history of ailments involving the skin, eye, respiratory tract, liver, kidney or central nervous system are at a greater than normal risk of developing adverse effects when exposed to this material

4 FIRST AID MEASURES

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

SKIN CONTACT: Remove contaminated clothing. Wash affected areas immediately with soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INHALATION: Remove to fresh air. If breathing has stopped, call 911, then have a trained person administer artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

INGESTION: Call a poison control center immediately for treatment advice. Do NOT induce vomiting unless told to do so by poison control center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be required. Although carbamates are known to cause cholinesterase inhibition, 3-iodo-2-propynyl butyl carbamate did not inhibit cholinesterase in animal tests.

5 FIRE FIGHTING MEASURES

FLASH POINT: 105F/41C
AUTOIGNITION TEMPERATURE: Not determined.
FLAMMABLE LIMITS (* by volume/air)
Lower Limit: Not determined.
Upper Limit: Not determined.

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, or foam.

FIRE FIGHTING PROCEDURES: As in any fire, wear complete fire service protective equipment, including full-face MSHA/NIOSH approved or equivalent self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel. Do not put in contact with oxidizing or caustic materials.

FIRE AND EXPLOSION HAZARDS: Solvent vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by flames and ignition sources. Never use welding or cutting torch on or near drum (even empty), because product residue can ignite explosively. Containers may explode if exposed to extreme heat. Eliminate sources of ignition.

6 SPILL AND LEAK PROCEDURES

6 SPILL AND LEAK PROCEDURES

SMALL SPILL: Absorb spill with an inert material (e.g., sand or earth), then place in a chemical waste container for proper disposal. Take up carefully to avoid heat and sparks. Keep spills out of sewers and open bodies of water.

LARGE SPILL: Isolate hazard area and deny entry. Shut-off ignition sources (flares, flames, including pilot lights, electrical sparks). Dike and contain spilled liquid with sand or earth. Do not use combustible products such as sawdust. Pump to storage or salvage vessel. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities that a spill has occurred.

7 HANDLING AND STORAGE

HANDLING: Avoid prolonged or repeated breathing of vapors or mists and contact with skin or eyes. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Ground and bond containers when transferring.

STORAGE: Store in areas/buildings designed to comply with OSHA 29 CFR 1910.106. Keep in a closed, labeled container within a cool (well-shaded), dry, ventilated area. Protect from physical damage. Keep containers closed when not in use. Store away from caustics and oxidizers.

OTHER: Showering and clothing change recommended at the end of each shift. Keep containers from excessive heat and freezing. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposures below current exposure limits. Vapors are heavier than air and will collect in low areas. Check all low areas for vapors before entering.

RESPIRATORS: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements 29 CFR 1910.134.

PERSONAL PROTECTIVE EQUIPMENT: Industrial safety glasses, minimum. As necessary for work area conditions: use side shields, goggles, or faceshield. As required, chemical resistant, flexible type gloves (nitrile, neoprene, or equal). Wear industrial-type work clothing and safety footwear. Depending on working conditions, i.e., contact potential, wear impervious protective garments such as head/neck cover, gloves, aprons, jackets, pants, coveralls, boots, etc. Wash contaminated clothing before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

Weight Per Gallon (lbs): 6.500 % VOL by Weight: Not determined Vapor Density:: (Air=1)>1 Boiling Point...: Not determined Evaporation Rate: (Butyl Acet=1)<1 pH.....: Not applicable Solubility In Water: Negligible Viscosity....: Not determined Voc Content...: Refer to Product Data Sheet

10 STABILITY AND REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Strong oxidizers and caustics.

PRODUCT NAME: Woodlife 1 1 1 PAGE 4 OF 4
10 STABILITY AND REACTIVITY DATA
$\label{eq:hazardous} \mbox{\sc DECOMPOSITION PRODUCT(S): Carbon dioxide, carbon monoxide, and oxides of nitrogen.}$
11 TOXICOLOGICAL INFORMATION
Contact Kop-Coat for information.
12 ECOLOGICAL INFORMATION
Product has not been tested for ecotoxicity.
13 DISPOSAL CONSIDERATIONS
Dispose of in compliance with all federal, state and local laws and regulations.
14 TRANSPORTATION INFORMATION
DOT information for domestic ground transportation: DOT PROPER SHIPPING NAME: Combustible liquid, n.o.s. (Mineral spirits) DOT HAZARD CLASS: 3 PG III LABEL: Wood Preservatives DOT IDENTIFICATION NUMBER: NA1993
DOT information for domestic air transportation: DOT PROPER SHIPPING NAME: Flammable liquid, n.o.s. (Mineral spirits) DOT HAZARD CLASS: 3 PG III LABEL: Flammable DOT IDENTIFICATION NUMBER: UN1993
15 REGULATORY INFORMATION
SARA TITLE III SECTION 313 CHEMICALS 3-iodo-2-propynyl butyl carbamate Propiconazole EPA REGISTRATION NUMBER: 60061-103
16 OTHER INFORMATION
Ketone, Mixture (CAS# 68990-20-5) is comprised primarily of high boiling ketones and methyl n-amyl ketone (CAS# 110-43-0).
NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Kop-Coat, Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

PREPARED BY: Manager of Health Safety and Environmental Affairs

KOP-COAT, INC PROTECTION PRODUCTS 5137 SOUTHWEST AVENUE ST. LOUIS 63110

EMERGENCIES	
HEALTH/SPILLS:	800-548-0489
CHEMTREC ASSISTANCE:	800-424-9300
CHEMTREC OUTSIDE US:	703-527-3887
CANUTEC:	613-996-6666

KOP-COAT, INC PRODUCT INFORMATION: 800-556-7737 OUTSIDE USA.....: 412-227-2700

1 PRODUCT IDENTIFICATION

PRODUCT NAME: Woodyouth Clear Wood Finish
PRODUCT USE:: Water repellent
APPEARANCE..: Clear slightly viscous liquid, gasoline-like odor
CAS NUMBER..: Mixture
SYNONYMS....: None
REVISION ...

REVISION...: 1 DATE.....: 4/21/97 MSDS NUMBER: 13310

2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	REG AGENCY	PPM NOTES	MG/M3	NOTES
Mineral spirits CAS NUMBER:8052-41-3 PERCENT BY WGT: 75 TO 80	ACGIH TLV NIOSH NIOSH STEL OSHA TWA	100 - - 100	525 350 1800 525	4

NOTES:

4) The short term exposure limit (STEL) is a 15-minute TWA exposure that should not be exceeded at any time during a workday.

3 HAZARDS IDENTIFICATION

EYE: Contact with liquid may cause eye irritation.

SKIN: Repeated or prolonged contact with the skin can result in defatting and drying of the skin which may result in skin irritation and dermatitis.

INHALATION: Avoid breathing vapors or mists. Harmful if inhaled. May cause irritation to nose, throat and respiratory tract. May affect the brain or nervous system causing dizziness, headache or nausea.

INGESTION: May cause vomiting, diarrhea and depressed respiration. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which may be fatal.

Individuals with pre-existing disease in or a history of ailments involving the skin, eye, respiratory tract, liver, kidney, central nervous system are at a greater than normal risk of developing adverse effects when exposed to this material.

4 FIRST AID MEASURES

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash affected areas immediately with soap and water. If irritation persists, get medical attention.

INHALATION: Remove to fresh air. If breathing has stopped, have a trained

4 FIRST AID MEASURES

person administer artificial respiration preferably mouth-to-mouth. If breathing is difficult, give oxygen.

INGESTION: If swallowed Do NOT induce vomitting. Contact a physician or poison control center immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5 FIRE FIGHTING MEASURES

FLASH POINT: 105F/41C
AUTOIGNITION TEMPERATURE: Not determined.
FLAMMABLE LIMITS (% by volume/air)
Lower Limit: Not determined.
Upper Limit: Not determined.

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, or foam.

FIRE FIGHTING PROCEDURES: As in any fire, wear complete fire service protective equipment, including full-face MSHA/NIOSH approved or equivalent self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel. Do not put in contact with oxidizing or caustic materials.

FIRE AND EXPLOSION HAZARDS: Containers may explode if exposed to extreme heat. Eliminate source of ignition.

6 SPILL AND LEAK PROCEDURES

SMALL SPILL: Absorb spill with an inert material (e.g., sand or earth), then place in a chemical waste container for proper disposal.

LARGE SPILL: Dike and contain spilled liquid with sand or earth. Do not use combustible products such as sawdust. Pump to storage or salvage vessel. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities that a spill has occurred.

7 HANDLING AND STORAGE

HANDLING: Avoid prolonged or repeated breathing of vapors, mists or fumes. Avoid prolonged or repeated contact with skin or eyes. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling.

STORAGE: Store in areas/buildings designed to comply with OSHA 29 CFR 1910.106. Keep in a closed, labeled container within a cool (well-shaded), dry, ventilated area. Protect from physical damage. Keep containers closed when not in use. Store away from caustics and oxidizers.

OTHER: Showering and clothing change recommended at the end of each shift. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 F. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposures below current exposure limits. Vapors are heavier than air and will collect in low areas. Check all low areas for vapors before entering.

RESPIRATORS: Use an approved NIOSH/OSHA respirator. Consult your safety equipment supplier and OSHA regulation, 29 CFR 1910.134 for respirator requirements.

PERSONAL PROTECTIVE EQUIPMENT: Industrial safety glasses, minimum. As necessary

NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Kop-Coat, Inc. makes no warranty with

16 OTHER INFORMATION

16 OTHER INFORMATION

respect thereto and disclaims all liability from reliance thereon. PREPARED BY: L. Briggs Manager Environmental and Regulatory Affairs

Material Safety Data Sheet



Issue date: 11/23/2010

Revision Number: 003.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

MACROPLAST UR 071A formerly PUR-FECT LOK 82-071A 551

Urethane adhesive

IDH number:

1219036

Product type:

Region:

United States

Company address: Henkel Corporation

10 Finderne Avenue Bridgewater, New Jersey 08807

Contact information: Customer Service: 1-888-480-6889

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Color: Odor:

Liquid white Slight

HMIS:
HEALTH:
FLAMMABILITY:
PHYSICAL HAZARD:

See MSDS Section 8

WARNING:

Personal Protection: CAUSES EYE IRRITATION.

MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.

MAY CAUSE LUNG DAMAGE

Relevant routes of exposure:

Skin, Eyes, Lungs

Potential Health Effects

May cause allergic skin and respiratory tract reaction. As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung

Skin contact:

damage. Repeated or prolonged skin contact may result in allergic sensitization. May cause skin

Ingestion:

Liquid or vapor can cause moderate to severe irritation. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing conditions aggravated by

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS							
Hazardous components CAS NUMBER %							
Methylenebis(phenylisocyanate)	101-68-8	5 - 10					
N-Methyl-2-pyrrolidone	872-50-4	5 - 10					

IDH number: 1219036

Product name: MACROPLAST UR 071A formerly PUR-FECT LOK 82-071A Page 1 of 5

4. FIRST AID MEASURES

If not breathing, give artificial respiration. Move to fresh air in case of Inhalation:

accidental inhalation of dust or fumes from overheating or combustion. If breathing is difficult, give oxygen.

Wash affected area immediately with soap and water. Immediately remove Skin contact:

soiled or soaked clothing. Seek medical advice

Rinse immediately with plenty of water, also under the eyelids, for at least 15 Eye contact:

minutes. Seek medical advice.

Ingestion: If material is ingested, immediately contact a physician or poison control

Notes to physician:

Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be

excluded from working with isocyanates.

5. FIRE FIGHTING MEASURES

> 93.3 °C (> 199.94 °F) Setaflash Closed Cup Flash point:

Autoignition temperature: Not available Flammable/Explosive limits - lower: not applicable

Flammable/Explosive limits - upper: not applicable

Use extinguishing measures appropriate to local circumstances and the surrounding environment. Water spray (fog), foam, dry chemical or carbon dioxide. Extinguishing media:

Special firefighting procedures: None Unusual fire or explosion hazards:

Hazardous combustion products: Isocvanate vapors. Acrid smoke and fumes. Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways. Follow all local, state,

federal and provincial regulations for disposal.

Evacuate and ventilate spill area; dike spill to prevent entry into water system; Clean-up methods:

wear full protective equipment during clean-up. Small spills can be absorbed with vermiculite, clay or other suitable non-biodegradable absorbent material, scooped up and placed in containers. For large spills dike ahead and collect

liquid.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.

Storage Not available

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

Product name: MACROPLAST UR 071A formerly PUR-FECT LOK 82-071A

Page 2 of 5

IDH number: 1219036

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Methylenebis(phenylisocyanate)	0.005 ppm TWA	0.02 ppm (0.2 mg/m3) Ceiling	None	None
N-Methyl-2-pyrrolidone	None	None	10 ppm (40 mg/m3) TWA (SKIN)	None

Engineering controls:

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general

ventilation is not sufficient to control airborne contamination.

In case of insufficient ventilation wear suitable respiratory equipment. Respirator with combination filter for vapor/particulate. Respiratory protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Do not wear Eye/face protection:

contact lenses

Wear suitable protective clothing. Skin protection:

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Liquid white white
Slight
Not available
not applicable
not applicable
60 mm hg (20 °C (68°F)) None
Not applicable
Until Not available
0.98
Not available Odor: Odor threshold:

Odor threshold:
pH:
pH:
pH:
Vapor pressure:
Boiling point/range:
Melting point/ range:
Specific gravity:
Vapor density:
Flash point:
Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:

Not available

> 93.3 °C (> 199.94 °F) Setaflash Closed Cup not applicable not applicable

Not available Autoignition temperature: Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water): Not determined Insoluble Not determined VOC content: 1.3 lb/gal

10. STABILITY AND REACTIVITY

Stable under normal conditions of storage and use Stability

Hazardous reactions: Hazardous decomposition products:

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Reacts with water: generation of heat Incompatible materials:

Avoid moisture. Prolonged heating at temperatures above 150 $^{\circ}\text{C}.$ Conditions to avoid:

Product name: MACROPLAST UR 071A formerly PUR-FECT LOK 82-071A

Page 3 of 5

IDH number: 1219036

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	
Methylenebis(phenylisocyanate)	No	No	No	
N-Methyl-2-pyrrolidone	No	No	No	

Hazardous components	Health Effects/Target Organs
Methylenebis(phenylisocyanate)	Irritant, Respiratory, Allergen
N-Methyl-2-pyrrolidone	Blood, Bone Marrow, Central nervous system, Immune system, Irritant, Lung

12. ECOLOGICAL INFORMATION

Ecological information:

No data available. 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

This product is not a RCRA hazardous waste when discarded. Processing, use, or contamination of this product may change the hazard classification and waste management options. Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:

Hazard class or division:

Identification number:

None

None Not regulated None Packing group:

International Air Transportation (ICAO/IATA)
Proper shipping name:
Hazard class or division: Not regulated None None Identification number: Packing group: None

Water Transportation (IMO/IMDG)
Proper shipping name:
Hazard class or division:
Identification number: Not regulated None None Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

All components are listed or are exempt from listing on the Toxic Substances Control Act TSCA 8 (b) Inventory Status:

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: Propylene oxide (CAS# 75-56-9). Immediate Health

Delayed Health
This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Methylenebis(phenylisocyanate) (CAS# 101-68-8). N-Methyl-2-pyrrolidone CERCLA/SARA 313:

(CAS# 872-50-4).

Product name: MACROPLAST UR 071A formerly PUR-FECT LOK 82-071A IDH number: 1219036

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This rins product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:

One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List. D.2.A D.2.B

WHMIS hazard class:

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet

Prepared by: J. Boryszewski, Regulatory Affairs

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

IDH number: 1219036

Product name: MACROPLAST UR 071A formerly PUR-FECT LOK 82-071A Page 5 of 5

MATERIAL SAFETY DATA SHEET

HMIG Labels: Health.....2

Flammability.....2 Reactivity.....0 Protection.....H

SECTION I - PRODUCT IDENTIFICATION: Nelsonite Wood Stabilizer

FORMULA: 15B02, 30B02, 30B32

Date: September 1, 1999

MANUFACTURER'S NAME: Nelsonite Chemical Products, Inc.

INFORMATION TELEPHONE:

STREET ADDRESS: 2320 Oak Industrial Dr. N.E.
CITY, STATE, ZIP: Grand Rapids, Michigan 49505

(616)456-7098 (616)456-6632 Fax

SECTION II – HAZARDOUS INGREDIENTS:

Ingredient/Chemical Name Mineral Spirits 66/3-Hydrocarbon Solvent	CAS Number 64742-88-7	Percentage 49*	Exposure Limit 400 ppm – 8 hours
100 Solvent – Refined Hydrocarbon Solvent, classed as a light aromatic Solvent Naptha (petroleum)	64742-95-6	36*	50 ppm – 8 hours
Proprietary Mixture of resins & oils Non-Hazardous	N/A	15*	N/A

^{*}Percentages given are for 15B02, For 30B02: 40%, 30%, 30%, For 30B32: 40%, 30%, 30%

Note: Exposure limits given are only estimates, TLV levels have not been established

SECTION III - PHYSICAL DATA:

Boiling Point (F): Approximately 325

Specific Gravity (H2O = 1): .86

Vapor Pressure (mm Hg): Unknown

Percent Volitale by Volume: 85%

by Weight: 5.9 lbs per gallon

Vapor Density (air = 1): Heavier than air

Evaporation Rate, Butyl Acetate: Approximately .1

Solubility in Water: Negligible

Appearance & Odor: Light amber color, solvent odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Flash Point: 40 C (104.5 F) Closed Cup

OSHA: Combustible Liquid

Extinguishing Media: Water Fog, Foam, Dry Chemical, or CO2. Do Not Use Water.

Special Fire Fighting Procedures: Use breathing apparatus. Cool exposed containers.

Unusual Fire & Explosion Hazards: Empty container may contain residue – do not cut, heat, weld, or pressurize. Avoid breathing fumes.

SECTION V - HEALTH HAZARD DATA:

Effects of Overexposure: Possible irritation of respiratory system, headache, nausea, dizziness, possible anesthesia. Skin irritant, Respiratory irritant, Eye irritant. May cause central nervous system depression.

Primary Routes of Entry: Dermal, Inhalation, Ingestion

Emergency & First Aid Procedures: INHALATION – Move person to fresh air. Consult a physician. SPLASH (eyes) – Flush eyes immediately with large amounts of water for at least 15 minutes, holding eyelids open while flushing. Take to a physician for medical treatment. SPLASH (skin) – Flush contaminated skin and clothing with large amounts of water. Remove contaminated clothing. Wash affected skin areas with soap and water. INGESTION – Drink one or two glasses of water or milk to dilute. Do Not induce vomiting. Consult physician.

SECTION VI - REACTIVITY DATA:

Stability: Stable

Hazardous Polymerization: Will Not Occur

Incompatibility: Strong Oxidizing agents

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide and unidentified organics

SECTION VII - SPILL OR LEAK PROCEDURES:

Steps to be taken in case material is released or spilled: Evacuate non-essential personnel. Avoid breathing fumes. Ventilate area. Notify appropriate authorities, if necessary. Contain and remove with inert absorbent material and non-sparking tools.

Waste Disposal Method: Disposal should be done is accordance with Federal (40 CFR Part 261), State and Local environmental control regulations. If waste is determined to be hazardous, use a licensed hazardous waste transporter and disposal facility. Completely dry film is Non-hazardous.

SECTION VIII - SAFE HANDLING AND USE PROCEDURES:

Respiratory Protection: Use NIOSH/MSHA approved self contained breathing apparatus.

Ventilation: Provide sufficient ventilation in pattern and volume. Air contaminant concentration should be below applicable exposure limits.

Protective Gloves: Gloves should be worn if skin contact is likely. Use neoprene, nitrile or rubber gloves that are solvent resistant to prevent skin contact.

Eye Protection: Use safety glasses or goggles as a minimum.

Other Protective Equipment: Use disposable or impervious clothing to protect against contamination.

SECTION IX - SPECIAL PRECAUTIONS:

Precautions to be taken in handling and storing: Handle and store as a combustible liquid. Keep containers tightly sealed. Store in full containers. Do not store small quantities in large containers, this decreases shelf life. Use caution when opening containers, contents my be under slight pressure.

FOR INDUSTRIAL USE ONLY - - KEEP AWAY FROM CHILDREN

MATERIAL SAFETY DATA SHEET

E60HC525 03 00

Section	1 PRODUCT AND COMPANY IDENTIFICA	TION
PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES Health 2
E60HC525	30-SEP-07	Flammability 0 Reactivity 0

PRODUCT NAME

Acrylic Millwork Primer, Straw

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES

Regulatory Information (216) 566-2902

Medical Emergency (216) 566-2917

Transportation Emergency (800) 424-9300

for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

ક	by WT	Section 2 CAS No.	COMPOSITION/INFORMATINGREDIENT	TIOI	N ON IN UNITS	NGREDIENTS VAPOR PRESSUR
	1	111-76-2	2-Butoxyethanol			
			ACGIH TLV	20	ppm	0.88 π
			OSHA PEL	25	ppm	
	0.2	14808-60-7	Quartz			
			ACGIH TLV 0.	05	mg/m3	as Resp. Dust
			OSHA PEL (1.1	mg/m3	as Resp. Dust
	13	14807-96-6	Talc			
			ACGIH TLV	2	mg/m3	as Resp. Dust
			OSHA PEL	2	mg/m3	as Resp. Dust
	25	471-34-1	Calcium Carbonate			
			ACGIH TLV	10	mg/m3	as Dust
			OSHA PEL	15	mg/m3	Total Dust
			OSHA PEL	5	mg/m3	Respirable Fraction
	12	13463-67-7	Titanium Dioxide			
			ACGIH TLV	10	mg/m3	as Dust
			OSHA PEL	10	mg/m3	Total Dust
			OSHA PEL	5	mg/m3	Respirable Fraction

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive $skin\ exposure$.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.

Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

UEL

INHALATION: If affected, remove from exposure. Restore breathing.

Keep warm and quiet.

INGESTION: Do not induce vomiting.

Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT LEL

Not Applicable N.A. N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108. RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.
PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. ${\tt EYE\ PROTECTION}$

Wear safety spectacles with unperforated sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT 12.80 lb/gal 1534 g/l SPECIFIC GRAVITY 1.54 BOILING POINT MELTING POINT 212 - 343 F 100 - 172 C Not Available VOLATILE VOLUME 56 % Slower than ether EVAPORATION RATE VAPOR DENSITY Heavier than air SOLUBILITY IN WATER N.A. рН 8.5 VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged) 0.33 lb/gal 40 g/l Less Water and Federally Exemp Less Water and Federally Exempt Solvents 0.15 lb/gal $18 \, g/1$ Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID None known. INCOMPATIBILITY None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA CAS No.	Ingredient Name			
111-76-2	2-Butoxyethanol			
	LC50	RAT	4HR	Not Available
	LD50	RAT		470 mg/kg
14808-60-7	Quartz			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available
14807-96-6	Talc			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available
471-34-1	Calcium Carbonate			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available
13463-67-7	Titanium Dioxide			-,
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND

Glycol Ethers

% by WT % Element

1

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

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

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

ENVIRONMENTAL DATA SHEET (Certified Product Data Sheet)

03 00 [3396]

THE SHERWIN-WILLIAMS COMPANY 101 Prospect Avenue N.W. Cleveland, OH 44115 30-SEP-07

This document includes all data required by 40 CFR 63.801(a) for a Certified Product Data Sheet under criteria specified in 40 CFR 63.805(a). All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production. adjustments made during production.

PRODUCT NUMBER E60HC525

PRODUCT NAME

Acrylic Millwork Primer, Straw

PRODUCT WEIGHT 12.80 lb/gal

SPECIFIC GRAVITY 1.54

FLASH POINT

HAZARD CATEGORY (for SARA 311/312)

Chronic Acute

	SARA 302 EHS	CERC.	SARA 313 TC	HAPS 112	Pct by Wt	Pct by Vol	
VOLATILE INGREDIENTS 2-Butoxyethanol 111-76-2 Water 7732-18-5	N	N N	*** N	n n	1 35	2 54	
REGULATED COMPOUNDS *** Glycol Ethers (SARA)	N	n	Y	N	1		

VOLATILE ORGANIC COMPOUNDS (follows U.S. EPA VOC Data Sheet)						
A.	Coating Densi	ty		12.80 lb/ga	al 1534 g/l	
в.	Total Volatil	.es		36.6 % by v	vt. 56.3 % by vol.	
C.	Federally exe Water	empt solvents:		35.4 % by v	vt. 54.3 % by vol.	
D.	Organic Volat	iles		1.2 % by v	vt. 2.0 % by vol.	
E.	Percent Non-V	olatile		63.4 % by v	vt. 43.7 % by vol.	
F.	VOC Content	0.15 lb/gal	18 g	g/l total		
	1.	0.33 lb/gal	40 g	g/l less exe	empt solvents	
	2.	0.35 lb/gal	41 g	g/l of solid	ls	
		0.01 lb/lb	0.01 k	kg/kg of solid	ls	
HAZARD	OUS AIR POLLUT	ANTS (Clean Air	Act, Se	ection 112(b))		
Vol.	atile HAPS	0.00 lb/gal	0.000 k	kg/l		
		0.00 lb/gal	0.000 k	kg/l of solid	ls	
		0.00 lb/lb	0.00 k	kg/kg of solid	ls	
AIR QU	ALITY DATA					
Den	sity of Organi	c Solvent Blend		7.	.56 lb/gal	
Photochemically Reactive				1	10	
Maximum Incremental Reactivity (MIR) 0.03 (per California Air Resources Board Method 310 proposed amendments for aerosol products)						

WASTE DISPOSAL

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) $40\ \text{CFR}\ 261.$

Addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



MATERIAL SAFETY DATA SHEET

E60WC530 02 00

Section	1 PRODUCT AND COMPANY IDENTIFIC	ATION
PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES Health 2*
E60WC530	30-SEP-07	Flammability 0 Reactivity 0
		Reactivity 0

PRODUCT NAME

Acrylic Millwork Primer, Clad White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY 101 Prospect Avenue N.W. Cleveland, OH 44115

TELEPHONE NUMBERS and WEBSITES

Regulatory Information (216) 566-2902 Medical Emergency (216) 566-2917

Transportation Emergency (800) 424-9300

for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

		COMPOSITION/	INFORMATIO		NGREDIENT		
% by WT	CAS No.	INGREDIENT		UNITS		VAPOR	PRESSURE
1	111-76-2	2-Butoxyetha	nol				
		ACGIH T	LV 20	ppm			0.88 mm
		OSHA P	EL 25	ppm			
0.2	14808-60-7	Quartz					
		ACGIH T	LV 0.05	mg/m3	as Resp.	Dust	
		OSHA P	EL 0.1	mg/m3	as Resp.	Dust	
14	14807-96-6	Talc					
		ACGIH T		mg/m3	as Resp.	Dust	
		OSHA P	EL 2	mg/m3	as Resp.	Dust	
. 25	471-34-1	Calcium Carb	onate				
		ACGIH T	LV 10	mg/m3	as Dust		
		OSHA P	EL 15		Total Du		
		OSHA P		mg/m3	Respirab	le Fra	ction
11	13463-67-7	Titanium Dio	xide				
		ACGIH T			as Dust		
		OSHA P	EL 10		Total Du		
		OSHA P	EL 5	mg/m3	Respirab	le Fra	ction

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.



E60WC530 page 2

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.

Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing.

Keep warm and quiet.
INGESTION: Do not induce vomiting

Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT LEL UEL Not Applicable N.A. N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

E60WC530 page 3

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108. RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

12.71 lb/gal PRODUCT WEIGHT 1523 g/l1.53 212 - 343 F SPECIFIC GRAVITY 100 - 172 C BOILING POINT MELTING POINT Not Available VOLATILE VOLUME 56 % EVAPORATION RATE Slower than ether VAPOR DENSITY Heavier than air SOLUBILITY IN WATER N.A. рН 8.5 VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged) 0.34 lb/gal 41 g/1

Less Water and Federally Exempt Solvents Emitted VOC 0.15 lb/gal 19 g/l

E60WC530 page 4

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC'S Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA				
CAS No.	Ingredient Name			
111-76-2	2-Butoxyethanol			
	LC50	RAT	4HR	Not Available
	LD50	RAT		470 mg/kg
14808-60-7	Quartz			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available
14807-96-6	Talc			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available
471-34-1	Calcium Carbonate			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available
13463-67-7	Titanium Dioxide			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION No data available.



E60WC530 page 5

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource

Conservation and Recovery Act (RCRA) 40 CFR 261.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.

CHEMICAL/COMPOUND % by WT % Element

Glycol Ethers

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

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

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

ENVIRONMENTAL DATA SHEET (Certified Product Data Sheet)

02 00 [3216]

THE SHERWIN-WILLIAMS COMPANY 101 Prospect Avenue N.W. Cleveland, OH 44115 30-SEP-07

This document includes all data required by 40 CFR 63.801(a) for a Certified Product Data Sheet under criteria specified in 40 CFR 63.805(a). All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production.

PRODUCT NUMBER E60WC530

PRODUCT NAME

Acrylic Millwork Primer, Clad White

PRODUCT WEIGHT 12.71 lb/gal SPECIFIC GRAVITY 1.53

FLASH POINT N.A.

HAZARD CATEGORY (for SARA 311/312) Acute Chronic

	SARA 302 EHS	CERC.	SARA 313 TC	HAPS 112	Pct by Wt	Pct by Vol	
VOLATILE INGREDIENTS 2-Butoxyethanol 111-76-2 Water 7732-18-5	N	N N	*** N	N	1 36	2 5 4	
REGULATED COMPOUNDS *** Glycol Ethers (SARA)	N	N	Y	N	1		•



VOLATI	LE ORGANIC COM	IPOUNDS (follow	s U.S. EPA VOC Data Sheet)
A.	Coating Densi	ty	12.71 lb/gal 1523 g/l
в.	Total Volatil	es	37.0 % by wt. 56.6 % by vol.
c.	Federally exe Water	empt solvents:	35.7 % by wt. 54.5 % by vol.
D.	Organic Volat	iles	1.3 % by wt. 2.1 % by vol.
E.	Percent Non-V	olatile	63.0 % by wt. 43.4 % by vol.
F.	VOC Content	0.15 lb/gal	19 g/l total
	1.	0.34 lb/gal	41 g/l less exempt solvents
	2.	0.36 lb/gal	43 g/l of solids
		0.01 lb/lb	0.01 kg/kg of solids
HAZARD	OUS AIR POLLUT	ANTS (Clean Ai	r Act, Section 112(b))
Vol	atile HAPS	0.00 lb/gal	0.000 kg/l
		0.00 lb/gal	0.000 kg/l of solids
		0.00 lb/lb	0.00 kg/kg of solids

AIR QUALITY DATA

E60WC530

Density of Organic Solvent Blend	7.55 lb/gal
Photochemically Reactive	NO
Maximum Incremental Reactivity (MIR) (per California Air Resources Board Method 310 proposed amendments for aerosol products)	0.03

WASTE DISPOSAL

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) $40~\mathrm{CFR}$ 261.

Addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



page 2

======================================	DATA SHEET=========
=====FOR CHEMICALS, COATINGS AND	RELATED MATERIALS======
======IN COMPLIANCE WITH OHSA 29 (CFR 1910.1200======
=====MANUFACTURER==	
LANNING CHEMICAL CO., INC. 3000 GRIFFIT	THS AVE. LOUISVILLE, KY 40212
=====EMERGENCY PHONE	
=====DAY 1-502-776-8330	
======================================	CHEMTREC===========
DATE PREPARED 11-14-08	REVISION DATE 11-14-08

SECTION 1-PRODUCT

NUMBER: LW-205

HMIS HAZARD CODES 85

CLASS : ACRYLIC

NAME : WHITE WATERBORNE UNDERCOATER HEALTH: 1 SLIGHT FLAMMABILITY: 0 MINIMAL

REACTIVITY: 0 MINIMAL

PERSONAL PROTECTIVE EQUIPMENT: A

SECTION 2- HAZARDOUS INGREDIENTS

MATERIAL DESCRIPTION	PERCENT BY WEIGHT	C.A.S. REGISTRY#	LEL	VAPOR PRESSURE mm HG @ 20C

SECTION 3-PHYSICAL DATA

BOILING RANGE: 212.0 – 212.0 DEG F FREEZING POINT 32.0 DEG F VAPOR PRESSURE:.9mm@ 20 DEGC VAPOR DENSITY: LIGHTER THAN AIR SPECIFIC GRAVITY: 1.42 H20 SOLUBLE: COMPLETE (>99.9%)

EVAPORATION RATE: SLOWER

%VOLATILE BY VOLUME: 69.000%

1.1 0.0

(RELATIVE TO N-BUTYL ACETATE)

THEORETICAL WEIGHT PER GALLON: 11.99 LB/GAL

PHYSICAL STATE: LIQUID

APPEARANCE: WHITE HIGH VISCOSITY LIQUID

ODOR: MILD ODOR VOC:0 LBS/GAL

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A EXPLOSIVE LIMITS: LEL UEL(%V IN AIR) MEHTHOD USED SETAFLASH FLAMMABILITY CLASSIFICATION OSHA: N/A DOT: NON REGULATED



DOT SHIPPING NAME: WATERBASED PAINT CLASS: 55
EXTINGUISHING MEDIA: NONE REQUIRED
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE REQUIRED
SPECIAL FIRE FIGHTING PROCEDURES: NONE REQUIRED

SECTION 5- TOXICOLOGICAL INFORMATION

]	MATERIAL DESCRIPTION	PEL	TLV MG/M3	TWA PPM	LD50 MG/KG RAT ORAL	LD50 MG/KG RBT DERMAL	LC50 PPM RAT INHAL
Г							

SECTION 6-HEALTH HAZARD DATA

EFFECTS OF EXCESSIVE OVEREXPOSURE.PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT: DIRECT CONTACT MAY CAUSE IRRITATION SKIN CONTACT: PROLONGED OR REPEATED CONTACT WITH PRODUCT MIGHT CAUSE MILD IRRITATION.

INHALATION: PROLONGED OVEREXPOSURE TO VAPORS OR DUST IN POORLY VENTILATED AREAS MAY CAUSE NOSE AND THROAT IRRITATION. INGESTION: MAY CAUSE MOUTH, THROAT, ESPHAGUS AND STOMACH IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

EMERGENCY AND FIRST AID PROCEDURES: IN CASE OF EYECONTACT, FLUSH IMMEDIATELYWITH PLENTY OF WATERFOR AT LEAST 15 MINUTESAND GET MEDICAL ATTENTION; FOR SKIN WASH THOROUGHLY WITH SOAP AND WATER WHILE REMOVINGCONTAMINATED CLOTHING AND SHOES.WASH CONTAMINATED CLOTHING.THOROUGHLY CLEAN CONTAMINATED SHOES. IF AFFECTED BY INHALATION OF VAPORS OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED, GET MEDICAL ATTENTION IMMEDIATELY.

CALIFORNIA PROPOSITION 65 INFORMATION: THIS MATERIAL CONTAINS NO INTENTIONALLY ADDED INGREDIENTS, COVERD BY THE CALIFORNIA "SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986" (PROPOSITION 65), UNLESS SPECIFICALLY STATED UNDER OTHER HEALTH HAZARDS.

OTHER HEALTH HAZARDS: NONE

SECTION 7-REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: NONE UNDER NORMAL CONDITIONS CONDITIONS TO AVOID: ELEVATED TEMPERATURES.



INCOMPATABILITY(MATERIALS TO AVOID): NONE REASONABLE OR FORSEEABLE.

HAZARDOUS DECOMPOSITION PRODUCTS: INCOMPLETE COMBUSTION CAN PRODUCE CARBON MONOXIDE.

SECTION 8-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: AVOID BREATHING IN VAPORS. VENTALTE AREA. CONTAIN AND REMOVE INERT ABSORBENT NON-SPARKING TOOLS.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL , STATE AND FEDERAL REGULATIONS.DO NOT INCINERATE CLOSED CONTAINERS. INCINERATE IN APPROVED FACILITY.

SECTION 9-SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: AVOID BREATHING OF SPRAY MIST. IF SPRAYED, WEAR MECHANICAL FILTER RESPIRATOR TO REMOVE SOLID PARTICLES OF OVERSPRAY. FOLLOW RESPIRATOR MANUFACTURERS DIRECTIONS FOR RESPIATOR USE.

VENTILATION: PROVIDE GENERAL CLEAN AIR DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO PREVENT AIR CONTAMINANT CONCENTRATION BUILD UP. REFER TO OSHA STANDARD 1910.94.

PROTECTIVE GLOVES: IF THERE IS POTENTIAL FOR PROLONGED OR REPEATED SKIN CONTACT, WEAR PLASTIC GLOVES FOR THE DURATION OF ANTICIPATED EXPOSURE.

EYE PROTECTION: AVOID CONTACT WITH EYES. USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE EQUIPMENT: NONE NORMALLY REQUIRED. IF UNABLE TO AVOID PROLONGED OR REPEATED CONTACT WITH SKIN, WEAR PROTECTIVE CLOTHING.

SECTION 10-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT STORE ABOVE 100 DEG. F. KEEP CONTAINERS CLOSED WHEN NOT IN USE AND UPRIGHT TO PREVENT LEAKAGE.

OTHER PRECAUTIONS: DO NOT TAKE INTERNALLY. WASH HANDS AFTER USING AND BEFORE EATING.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY



Franklin International

Material Safety Data Sheet

Advantage 405

1. Product and company identification

Address : Franklin International

2020 Bruck Street Columbus OH 43207

Contact person : Franklin Technical Services

Telephone : (800) 877-4583
In case of emergency : Franklin Security

(614) 445-1300

 Reference number
 : 6190

 Product code
 : 136190000

 Date of revision
 : 9/6/2013.

 Print date
 : 3/25/2014.

 Chemtrec (24 Hour)
 : (800) 424 - 9300

 Chemtrec International
 : (703) 527 - 3887

 Chemical family
 : Adhesive.

2. Hazards identification

Emergency overview

Physical state : Liquid.
Color : Beige.
Signal word : CAUTION!

Hazard statements : MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. POSSIBLE

CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

Precautionary measures : Do not handle until all safety precautions have been read and understood. Obtain

special instructions before use. Avoid breathing vapor or mist. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Use personal protective equipment as required. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

: Eye contact. Inhalation, Ingestion.

Potential acute health effects

Routes of entry

Inhalation : Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Slightly irritating to the respiratory system.

 Ingestion
 : No known significant effects or critical hazards.

 Skin
 : Slightly irritating to the skin. Prolonged or repeated contact can defat the skin and lead

to irritation, cracking and/or dermatitis.

Eyes : Moderately irritating to eyes. This product may irritate eyes upon contact.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : Contains material which may cause cancer. Risk of cancer depends on duration and

level of exposure.

Mutagenicity : No known significant effects or critical hazards.

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2. Hazards identification

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards. Fertility effects : No known significant effects or critical hazards.

Target organs : May cause damage to the following organs: upper respiratory tract, eyes.

Contains material which may cause damage to the following organs: skin, eye, lens or

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion : No specific data.

Skin : Adverse symptoms may include the following:

irritation redness

Eyes : Adverse symptoms may include the following:

irritation watering redness : None known.

Medical conditions

aggravated by over-

exposure

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
ethylene di(acetate)	111-55-7	1 - 5
vinyl acetate	108-05-4	0.1 - 0.5

Canada

Name	CAS number	%
ethylene di(acetate)	111-55-7	1 - 5
vinyl acetate	108-05-4	0.1 - 0.5

Mexico

	number // IDEA					ation		
Name		UN number	%	IDLH	Н	F	R	Special
ethylene di(acetate)	111-55-7	Not available.	1 - 5	-	1	1	0	_

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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4. First aid measures

Eve contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

Special protective

: Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

Small spill Stop leak if without risk. Move containers from spill area. Dispose of via a licensed

waste disposal contractor. Absorb with an inert material.

Large spill Stop leak if without risk. Move containers from spill area. Approach release from

upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste

disposal.

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7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store between the following temperatures: 10 to 32.222°C (50 to 90°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits	
vinyl acetate	ACGIH TLV (United States, 3/2012).	
	TWA: 10 ppm 8 hour(s).	
	TWA: 35 mg/m³ 8 hour(s).	
	STEL: 15 ppm 15 minute(s).	
	STEL: 53 mg/m³ 15 minute(s).	
	OSHA PEL 1989 (United States, 3/1989).	
	TWA: 10 ppm 8 hour(s).	
	TWA: 30 mg/m³ 8 hour(s).	
	STEL: 20 ppm 15 minute(s).	
	STEL: 60 mg/m³ 15 minute(s).	
	NIOSH REL (United States, 1/2013).	
	CEIL: 4 ppm 15 minute(s).	
	CEIL: 15 mg/m³ 15 minute(s).	

Canada

Occupational exposure limits		TWA	TWA (8 hours)		STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
vinyl acetate	US ACGIH 3/2012 AB 4/2009 BC 4/2012 ON 1/2013 QC 12/2012	10 10 10 10 10	35 35 - 35 35	-	15 15 15 15 15	53 53 - 53 53	-	- - - -	-	-	

Mexico

Occupational exposure limits

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

Recommended monitoring

procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory

protective equipment.

Engineering measures

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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8. Exposure controls/personal protection

: Wash hands, forearms and face thoroughly after handling chemical products, before Hygiene measures

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Personal protection

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved

standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is

necessary

Eyes : Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists or

Skin : Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Environmental exposure

Emissions from ventilation or work process equipment should be checked to ensure

they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

Physical state : Liquid.

Flash point : Closed cup: >93.333°C (>200°F) [Setaflash.]

Color : Beige. рH : 6.5 to 7.6 Boiling/condensation point : 98.889°C (210°F)

Relative density : 1.11 Volatility : 48% (w/w)

Evaporation rate : <1 (butyl acetate = 1)

VOC (less water, less

exempt solvents)

: 8.42 g/l

Dispersibility properties : Dispersible in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability : The product is stable. Conditions to avoid : No specific data. Incompatible materials : No specific data.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should

products not be produced.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethylene di(acetate)	LD50 Oral	Rat	6850 mg/kg	_
vinyl acetate	LC50 Inhalation Vapor	Rat	11400 mg/m3	4 hours
	LD50 Dermal	Rabbit	2335 mg/kg	-
	LD50 Oral	Rat	2900 mg/kg	-

Chronic toxicity

No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethylene di(acetate)	Eyes - Mild irritant	Rabbit	-	500	-
				milligrams	

Conclusion/Summary

Skin

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Eyes

: This product may irritate eyes upon contact.

Respiratory

: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Sensitizer

No known significant effects or critical hazards.

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
vinyl acetate	A3	2B	-		-	-

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

<u>Canada</u>

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethylene di(acetate)	LD50 Oral	Rat	6850 mg/kg	
vinyl acetate	LC50 Inhalation Vapor	Rat	11400 mg/m3	4 hours
	LD50 Dermal	Rabbit	2335 mg/kg	1
	LD50 Oral	Rat	2900 mg/kg	Ļ

Chronic toxicity

No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethylene di(acetate)	Eyes - Mild irritant	Rabbit	1	500 milligrams	-

Conclusion/Summary

3/25/2014.

136190000



11. Toxicological information

Skin

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Eyes

: This product may irritate eyes upon contact.

Respiratory

: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Sensitizer

No known significant effects or critical hazards.

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
vinyl acetate	A3	2B	-	-	-	-

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Mexico

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethylene di(acetate)	LD50 Oral	Rat	6850 mg/kg	-

No known significant effects or critical hazards.

Chronic toxicity

No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethylene di(acetate)	Eyes - Mild irritant	Rabbit		500 milligrams	-

Conclusion/Summary

Skin

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Eyes

: This product may irritate eyes upon contact.

Respiratory

: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

<u>Sensitizer</u>

No known significant effects or critical hazards.

<u>Carcinogenicity</u>

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
vinyl acetate	A3	2B	-		-	-

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

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YOUNG

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

United States

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethylene di(acetate)	Acute LC50 78000 ug/L Marine water	Fish - Menidia beryllina - 40 to 100 mm	96 hours
vinyl acetate	Acute LC50 10000 to 100000 ug/L Marine water	Crustaceans - Crangon crangon - Larvae	48 hours
	Acute LC50 14000 ug/L Fresh water	Fish - Pimephales promelas - 1 days	96 hours

Persistence/degradability

No known significant effects or critical hazards.

Canada

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethylene di(acetate)	Acute LC50 78000 ug/L Marine water	Fish - Menidia beryllina - 40 to 100 mm	96 hours
vinyl acetate	Acute LC50 10000 to 100000 ug/L Marine water	Crustaceans - Crangon crangon - Larvae	!
	Acute LC50 14000 ug/L Fresh water	Fish - Pimephales promelas - 1 days	96 hours

Persistence/degradability

No known significant effects or critical hazards.

Mexico

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethylene di(acetate)	Acute LC50 78000 ug/L Marine water	Fish - Menidia beryllina - 40 to 100 mm	96 hours

No known significant effects or critical hazards.

Persistence/degradability

No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information	
DOT Classification	Not regulated.	-	-	-		-	
TDG Classification	Not regulated.	-	-	-		-	
Mexico Classification	Not regulated.	-	-	-		-	
ADR/RID Class	Not regulated.	-	-	-		-	
IMDG Class	Not regulated.	-	-	-		-	
IATA-DGR Class	Not regulated.	-	-	-		-	

PG*: Packing group

15. Regulatory information

United States

HCS Classification

: Irritating material Carcinogen

U.S. Federal regulations

: TSCA 4(a) final test rules: sodium hydroxymethanesulphinate

TSCA 8(a) PAIR: methyl acetate; Siloxanes and Silicones, di-Me, reaction products with

silica; mequinol; sodium metabisulphite

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification. No products were found.

SARA 302/304/311/312 hazardous chemicals: ethylene di(acetate)

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ethylene di(acetate): Immediate (acute) health hazard

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 313

3/25/2014.

136190000



15. Regulatory information

	Product name	CAS number	Concentration
Form R - Reporting requirements	ethylene di(acetate) vinyl acetate	111-55-7 108-05-4	1 - 5 0.1 - 0.5
Supplier notification	vinyl acetate	108-05-4	0.1 - 0.5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Massachusetts : None of the components are listed.

New York : The following components are listed: Vinyl acetate

New Jersey The following components are listed: VINYL ACETATE; ACETIC ACID ETHENYL

ESTER

Pennsylvania : The following components are listed: ACETIC ACID ETHENYL ESTER; 1,

2-ETHANEDIOL, DIACETATE

Canada

WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

Canada inventory : Not determined.

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

Classification



International regulations

International lists : Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined. Japan inventory: Not determined. Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined

Philippines inventory (PICCS): Not determined.

Chemical Weapons

Convention List Schedule

: Not listed

I Chemicals

Chemical Weapons

: Not listed

Convention List Schedule

II Chemicals

Chemical Weapons

Convention List Schedule

: Not listed

III Chemicals

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16. Other information

Label requirements : MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. POSSIBLE CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

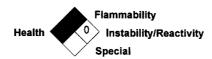
Hazardous Material Information System (U.S.A.)

Health
Flammability
Physical hazards

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

 Date of printing
 : 3/25/2014.

 Date of issue
 : 9/6/2013.

 Date of previous issue
 : 1/29/2013.

Version : 2

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

3/25/2014. 136190000 **11//11**





Material Safety Data Sheet

1. Product and company identification

Trade name

: Famowood Wood Filler - Original Formula

Supplier

Eclectic Products Inc. 1075 Arrowsmith Eugene, OR 97402 541-484-9621

Material uses

: Not available.

Manufacturer

: Eclectic Products Inc. 1075 Arrowsmith Eugene, OR 97402 541-484-9621

Code

: 10101100 : 1/3/2014.

Validation date Print date

: 1/3/2014. : 1/3/2014.

Responsible name

: Regulatory Compliance

In case of emergency

: CALL INFOTRAC

1-800-535-5053 or 001-352-323-3500

2. Hazards identification

Physical state

: Liquid. [Paste.]

Emergency overview

: WARNING!

FLAMMABLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, EYE AND

SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Flammable liquid. Harmful if swallowed. Irritating to eyes, respiratory system and skin. Keep away from heat, sparks and flame. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after

handling.

Routes of entry

: Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Inhalation

: Irritating to respiratory system. Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

Ingestion

Skin

Eyes

Harmful if swallowed.Irritating to skin.Irritating to eyes.

Potential chronic health effects

Chronic effects
Carcinogenicity

No known significant effects or critical hazards.

Teratogenicity
Developmental effects
Fertility effects

No known significant effects or critical hazards.No known significant effects or critical hazards.

Target organs

Mutagenicity

: Contains material which may cause damage to the following organs: lungs, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens

or cornea.

1/3/2014.



2. Hazards identification

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion : No specific data.

Skin : Adverse symptoms may include the following:

irritation redness

Eyes : Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by over-

: Pre-existing digestive disorders may be aggravated by over-exposure to this product.

exposure

See toxicological information (Section 11)

3. Composition/information on ingredients

<u>Name</u>	CAS number	%
Acetone	67-64-1	5-10
Methyl Ethyl Ketone	78-93-3	5-10
Wood Dust Particles	9004-34-6	5-10
Nitrocellulose	9004-70-0	1-5
Solvent Naphtha	64742 - 89-8	1-5
Isopropanol	67-63-0	1-5
Crystalline Silica	14808-60-7	<1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

: Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Ingestion

: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

1/3/2014.



4. First aid measures

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product

: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Extinguishing media

Suitable

: Use dry chemical, CO2, water spray (fog) or foam.

Not suitable

: Do not use water iet

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous combustion products

: Decomposition products may include the following materials:

carbon oxides nitrogen oxides metal oxide/oxides

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

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7. Handling and storage

Handling

: Fut on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8 . Exposure controls/personal protection

Product name

Acetone

Exposure limits

ACGIH TLV (United States, 1/2009).

STEL: 1782 mg/m3 15 minute(s). STEL: 750 ppm 15 minute(s). TWA: 1188 mg/m³ 8 hour(s). TWA: 500 ppm 8 hour(s).

NIOSH REL (United States, 6/2008).

TWA: 590 mg/m3 10 hour(s). TWA: 250 ppm 10 hour(s) OSHA PEL (United States, 11/2006).

TWA: 2400 mg/m3 8 hour(s). TWA: 1000 ppm 8 hour(s)

OSHA PEL 1989 (United States, 3/1989). Notes: The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors.

STEL: 2400 mg/m3 15 minute(s). STEL: 1000 ppm 15 minute(s). TWA: 1800 mg/m3 8 hour(s). TWA: 750 ppm 8 hour(s).

Methyl Ethyl Ketone

ACGIH TLV (United States, 1/2009). Notes: Substances for which

there is a Biological Exposure Index or Indices

STEL: 885 mg/m3 15 minute(s). STEL: 300 ppm 15 minute(s). TWA: 590 mg/m3 8 hour(s). TWA: 200 ppm 8 hour(s). NIOSH REL (United States, 6/2008).

STEL: 885 mg/m3 15 minute(s). STEL: 300 ppm 15 minute(s). TWA: 590 mg/m³ 10 hour(s). TWA: 200 ppm 10 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 590 mg/m³ 8 hour(s). TWA: 200 ppm 8 hour(s)

OSHA PEL 1989 (United States, 3/1989).

STEL: 885 mg/m3 15 minute(s). STEL: 300 ppm 15 minute(s). TWA: 590 mg/m3 8 hour(s). TWA: 200 ppm 8 hour(s).

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8 . Exposure controls/personal protection

Wood Dust Particles ACGIH TLV (United States, 1/2009).

TWA: 10 mg/m3 8 hour(s).

NIOSH REL (United States, 6/2008).

TWA: 5 mg/m3 10 hour(s). Form: Respirable fraction

TWA: 10 mg/m3 10 hour(s). Form: Total OSHA PEL (United States, 11/2006).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m3 8 hour(s). Form: Total dust OSHA PEL 1989 (United States, 3/1989).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m3 8 hour(s). Form: Total dust

ACGIH TLV (United States, 1/2009). Notes: Refers to Appendix A -- Carcinogens. ACGIH 2003 Adoption

STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s). NIOSH REL (United States, 6/2008). STEL: 1225 mg/m3 15 minute(s). STEL: 500 ppm 15 minute(s). TWA: 980 mg/m3 10 hour(s).

TWA: 400 ppm 10 hour(s). OSHA PEL (United States, 11/2006).

TWA: 980 mg/m3 8 hour(s).

TWA: 400 ppm 8 hour(s).
OSHA PEL 1989 (United States, 3/1989).

STEL: 1225 mg/m3 15 minute(s). STEL: 500 ppm 15 minute(s). TWA: 980 mg/m3 8 hour(s). TWA: 400 ppm 8 hour(s).

Crystalline Silica

Isopropanol

ACGIH TLV (United States, 1/2009). Notes: Respirable fraction; see

Appendix C, paragraph C.

TWA: 0.025 mg/m³ 8 hour(s). Form: Respirable fraction

NIOSH REL (United States, 6/2008). Notes: See Appendix A - NIOSH

Potential Occupational Carcinogen

TWA: 0.05 mg/m3 10 hour(s). Form: respirable dust OSHA PEL 1989 (United States, 3/1989). Notes: as quartz TWA: 0.1 mg/m³, (as quartz) 8 hour(s). Form: Respirable dust OSHA PEL Z3 (United States, 9/2005).

TWA: 10 mg/m³ 8 hour(s). Form: Respirable TWA: 30 mg/m3 8 hour(s). Form: Total dust. TWA: 250 mppcf 8 hour(s). Form: Respirable

Recommended monitoring

procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory

protective equipment.

Engineering measures

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof

ventilation equipment. Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Personal protection

Hygiene measures

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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8. Exposure controls/personal protection

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is

Hecessary

Eyes : Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists,

gases or dusts

Skin : Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product

Environmental exposure

controls

 Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will

be necessary to reduce emissions to acceptable levels.

Precautions to be taken in

use:

: This product may contain materials classified as nuisance particulates, which may be present at hazardous levels only during sanding or abrading of the dried film. Wear a dust/mist respirator approved for dust when dusts are generated from sanding or

abrading the dried film.

9. Physical and chemical properties

Physical state : Liquid. [Paste.]

Flash point : Open cup: -17°C (1.4°F) []

 Color
 : Various

 Odor
 : Not available.

 Boiling/condensation point
 : 56.111°C (133°F)

 Specific gravity
 : 1.49 to 1.58

 Estimated Vapor Density
 : >1 [Air = 1]

 VOC %
 : 14.51% - 17.11%

Evaporation rate : 🕅 (ether (anhydrous) = 1)

Solubility : Partially soluble in the following materials: water.

10 . Stability and reactivity

Stability : The product is stable. Under normal conditions of storage and use, hazardous

polymerization will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not

allow vapor to accumulate in low or confined areas.

Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should

products not be produced.

Hazardous polymerization : Will not occur.

Conditions of reactivity : Flammable in the presence of the following materials or conditions: open flames, sparks

and static discharge

11. Toxicological information

Species	Dose	Exposure
venous Rat	5500 ma/ka	- '
Rat	5800 mg/kg	-
Rat	5800 mg/kg	-
nal Rabbit	20 mL/kg	_
Rat neal	500 mg/kg	-
Rat	5 mL/ka	-
nal Rabbit	6480 mg/kg	_
Rat	607 mg/kg	-
	venous Rat Rat Rat nal Rabbit Rat neal Rat nal Rabbit	venous Rat 5500 mg/kg Rat 5800 mg/kg Rat 5800 mg/kg nal Rabbit 20 mL/kg Rat 500 mg/kg neal Rat 5 mL/kg nal Rabbit 6480 mg/kg

Intraperitoneal 1/3/2014.



	LD50 Oral	Rat	2737 mg/kg	-
Vood Dust Particles	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50	Rat	>31600 mg/kg	-
	Intraperitoneal			
	LD50 Oral	Rat	>5 g/kg	-
	TDLo Oral	Rat	120 g/kg	-
litrocellulose	LD50 Oral	Rat	>5 gm/kg	-
sopropanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50	Rat	2735 mg/kg	-
	Intraperitoneal			
	LD50 Intravenous	Rat	1088 mg/kg	_
	LD50 Oral	Rat	5045 mg/kg	
	LD50 Oral	Rat	5000 mg/kg	_
	TDLo	Rat	800 mg/kg	_
	Intraperitoneal		-	
rystalline Silica	LDLo	Rat	250 mg/kg	_
•	Intratracheal			
	LDLo	Rat	>200 mg/kg	_
	Intratracheal		gg	
	LDLo Intravenous	Rat	90 mg/kg	_
	TDLo	Rat	100 mg/kg	_
	Intratracheal			
	TDLo	Rat	50 mg/kg	_
	Intratracheal		oo mg/kg	
	TDLo	Rat	30 mg/kg	_
	Intratracheal	· · ·	oo mg/kg	-
	TDLo	Rat	25 mg/kg	_
	Intratracheal	· · ·	25 Hig/kg	-
	TDLo	Rat	15.69 mg/kg	_
	Intratracheal	1101	13.09 Hig/kg	-
	TDLo	Rat	10 mg/kg	
	Intratracheal	Titat	10 mg/kg	-
	TDLo	Rat	10 mg/kg	
	Intratracheal	Nat	10 mg/kg	-
	TDLo	Pot	E mallen	
	Intratracheal	Rat	5 mg/kg	-
	TDLo	D-4	4.5	
		Rat	1.5 mg/kg	-
	Intratracheal			
	TDLo	Rat	1 mg/kg	-
	Intratracheal			
	TDLo	Rat	1 mg/kg	• '
		Kat	1250 ug/kg	-
		Rat	150 mg/kg	-
		Rat	150 mg/kg	-
		_		
arcinogenicity	Intratracheal TDLo Intratracheal TDLo Intratracheal TDLo Intratracheal TDLo Oral	Rat Rat Rat Rat		- - -

Carcinogenicity
Conclusion/Summary

Limestone and natural iron oxide used in making this product contain crystaline silica as an impurity. Repeated, prolonged exposure to respirable crystalline dusts may increase the risk of developing a disabling lung disease called silicosis. The International Agency for Research on Cancer (IARC) reports there is sufficient evidence in humans for the carcinogencity of inhaled crystalline silica from occupational sources. Based on studies of workers in industrial and occupational settings, The National Toxicology Program (NTP) Ninth Report on Carcinogens lists crystalline silica (respirable) as a substance known to be a carcinogen to humans.

<u>Classification</u>							
Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA	
1/3/2014.						7/12	

11 . Toxicological information

Wood Dust Particles Crystalline Silica

IDLH

-A2

Synergistic products

Acetone

: Not available. : Not available

12. Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity	
Product/ingredient	name

Test -	Result Acute LC50 6900	Species Daphnia -	Exposure 48 hours
-	mg/L Fresh water Acute LC50 5.54 to 6.33 ml/L Fresh water	Daphnia magna Fish - Oncorhynchus mykiss	96 hours
-	Acute LC50 12100000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
'	Acute LC50 11000000 to 11300000 ug/L Marine water	Fish - Alburnus alburnus	96 hours
-	Acute LC50 10700000 ug/L Fresh water	Fish - Pimephales promelas	96 hours
-	Acute LC50 9218000 to 14400000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
-	Acute LC50 9100000 to 9482000 ug/L Fresh water	Fish - Pimephales promelas	96 hours
-	Acute LC50 8800000 ug/L Fresh water	Daphnia - Daphnia pulex	48 hours
-	Acute LC50 8300000 ug/L Fresh water	Fish - Lepomis macrochirus	96 hours
-	Acute LC50 8300000 ug/L Fresh water	Fish - Lepomis macrochirus	96 hours
-	Acute LC50 8120000 to 8760000 ug/L Fresh water	Fish - Pimephales promelas	96 hours
-	Acute LC50 8098000 to 8640000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia	48 hours
-	Acute LC50 7810000 ug/L Fresh water	Daphnia - Daphnia cucullata	48 hours
•	Acute LC50 7460000 ug/L Fresh water	Daphnia - Daphnia cucullata	48 hours
-	Acute LC50 7280000 to 7880000 ug/L Fresh water	Fish - Pimephales promelas	96 hours
-	Acute LC50 6210000 to	Fish - Pimephales	96 hours

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12 . Ecological information 7030000 ug/L promelas Fresh water Acute LC50 Fish -96 hours >100000 ug/L Pimephales Fresh water promelas Acute LC50 Daphnia -48 hours 10000 ug/L Daphnia magna Fresh water Acute LC50 Daphnia -48 hours 13300000 ug/L Daphnia magna Fresh water Acute LC50 Daphnia -48 hours 12600000 ug/L Daphnia magna Fresh water Methyl Ethyl Ketone Acute EC50 Daphnia -48 hours 5091000 to Daphnia magna 6440000 ug/L Fresh water Acute LC50 Fish -96 hours 3220000 to Pimephales 3320000 ug/L promelas Fresh water Acute LC50 Daphnia -48 hours >520000 ug/L Daphnia magna Fresh water Acute LC50 Fish - Gambusia 96 hours 5600000 ug/L affinis Fresh water Acute LC50 >400 Fish -96 hours ppm Marine water Cyprinodon variegatus Chronic NOEC Daphnia -48 hours <70000 ug/L Daphnia magna Fresh water Isopropanol Acute LC50 Fish -96 hours 11130000 ug/L Pimephales Fresh water promelas Acute LC50 Fish -96 hours 10400000 to Pimephales 10600000 ug/L promelas Fresh water Acute LC50 Fish -96 hours 9640000 to Pimephales 10000000 ug/L promelas Fresh water Acute LC50 Fish -96 hours 6550000 to Pimephales 7450000 ug/L promelas Fresh water Acute LC50 Fish - Rasbora 96 hours 4200000 ug/L heteromorpha Fresh water Acute LC50 Fish - Gambusia 96 hours >1400000 ug/L affinis Acute LC50 Fish - Lepomis 96 hours >1400000 ug/L macrochirus Conclusion/Summary : Not available. **Biodegradability** Conclusion/Summary : Not available.

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13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	1993	FLAMMABLE LIQUIDS, N.O.S. (Acetone)	3	II	4	Remarks The product is a consumer commodity. < 0 .3 gal Consumer commodity ORM-D
TDG Classification	1993	FLAMMABLE LIQUIDS, N.O.S. (Acetone)	3	II		-
IMDG Class	1993	FLAMMABLE LIQUIDS, N.O.S. (Acetone)	3	II	A	-
IATA-DGR Class	1993	FLAMMABLE LIQUIDS, N.O.S. (Acetone)	3	II		-

PG*: Packing group

15. Regulatory information

U.S. Federal regulations

: FSCA 8(b) inventory: All components are listed or exempted.

SARA 311/312 - fire, Acute, Chronic

SARA 313

: Product name

CAS number

Concentration

Form R - Reporting requirements

Zinc Stearate

557-05-1

1-5

This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and subpart C-Supplier Notification Requirement of 40 CFR Part 372.

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer. The California listing of silica, crystalline as a carcinogen is qualified as "airborne particles of respirable size". Avoid inhalation of dust from sanding. If dust is generated and ventilation is inadequate, use NIOSH certified respirator that will protect against dust/ mist.

Ingredient name Cancer Reproductive Wood Dust Particles Yes. No.

Crystalline Silica

Yes.

No

Canada

1/3/2014.



15. Regulatory information

WHMIS (Canada)

: Class B-2: Flammable liquid

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Canada inventory

: Canada inventory: Not determined.

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

Mexico

Classification

.



EU regulations

Hazard symbol or symbols :



Risk phrases

: R11- Highly flammable.

R67- Vapors may cause drowsiness and dizziness.

Safety phrases

S2- Keep out of the reach of children.

S46- If swallowed, seek medical advice immediately and show this container or label.

International regulations

International lists

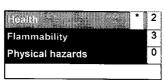
: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Korea inventory (KECI): Not determined. Philippines inventory (PICCS): Not determined. Japan inventory (ENCS): Not determined.

EU Inventory

: Europe inventory: Not determined.

16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Date of printing

: 1/3/2014.

1/3/2014.



16 Other information

Date of issue

: 1/3/2014.

Date of previous issue

: 10/10/2011.

Version

: 1.06

 $\ensuremath{\overline{\mathcal{V}}}$ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

1/3/2014.

