



SAFETY DATA SHEET (SDS) - PATCH KIT (made up of Aggregate and Additive)

AGGREGATE (powder material in Patch Kit)

NOTE: ADDITIVE (liquid polymer in Patch Kit) to follow

SECTION 1: Identification

Material Name: Aggregate

Recommended use: Cement, Portland, Chemicals

Restrictions on use: Not known

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY

19218 REDWOOD ROAD

CLEVELAND OH 44110, US

Contact Person: EH&S Department

Telephone: 216-531-9222

Emergency Telephone Number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

SECTION 2: Hazard(s) Identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitizer	Category 1B
Carcinogenicity	Category 1A
Specific Target Organ Toxicity - Single Exposure	Category 3

Unknown Toxicity – Health

Acute toxicity, oral	99.82%
Acute toxicity, dermal	100%
Acute toxicity, inhalation, vapor	100%
Acute toxicity, inhalation, dust or mist	100%

Unknown Toxicity – Environment

Acute hazards to the aquatic environment	99.37%
Chronic hazards to the aquatic environment	100%

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statements: Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
May cause cancer
May cause respiratory irritation

Precautionary Statement:

Prevention: Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fumes/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Immediately call a poison control center/doctor. Specific treatment (see this label.) Wash contaminated clothing before reuse.

Storage: Store locked up. Store in well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other Hazards Which Do Not Result in GHS Classification: None.

SECTION 3: Composition/Information on Ingredients

Mixtures

Chemical Identity	CAS Number	Content in percent (%)*
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	40-70
Portland Cement	65997-15-1	30-60
Calcium Carbonate (Limestone)	1317-65-3	10-30
Aluminum Oxide	1344-28-1	0.1-1

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in % by volume.

SECTION 4: First Aid Measures

Ingestion: Rinse mouth. If you feel unwell, call a poison control center/doctor.

Inhalation: Move to fresh air.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses (if present.) Call a physician or poison control center immediately.

Most Important Symptoms/Effects, Acute and Delayed:

Symptoms: Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing. Respiratory tract irritation.

Indication of Immediate Medical Attention and Special Treatment is Needed:

Treatment: Symptoms may be delayed.

SECTION 5: Fire-Fighting Measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and Unsuitable) Extinguishing Media:

Suitable Extinguishing Media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising From the Chemical: During fire, gases hazardous to health may be formed.

Special Protective Equipment and Precautions for Firefighters:

Special Fire Fighting Procedures: No data available.

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and Material for Containment and Cleaning Up: Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in Accordance with all applicable regulations.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

SECTION 7: Handling and Storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Wash hands thoroughly after handling. Avoid contact with skin. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Conditions for Safe Storage, Including Any Incompatibilities: Store locked up.

SECTION 8: Exposure Controls and Personal Protection**Control Parameters:****Occupational Exposure Limits:**

Chemical Identity	Type	Exposure Limit Value	Source
Crystalline Silica (Quartz)/ Silica Sand – Respirable Fraction	TWA	0.025 mg/m ³	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand – Respirable	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000). (2000)

	TWA	0.1 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000). (2000)
Crystalline Silica (Quartz)/ Silica Sand – Total Dust	TWA	0.3 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000). (2000)
Portland Cement – Respirable Fraction	TWA	1 mg/m ³	US. ACGIH Threshold Limit Values (2011)
Portland Cement – Total Dust	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Portland Cement – Respirable Fraction	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Portland Cement	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000). (2000)
Calcium Carbonate (Limestone) – Total Dust	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) – Respirable Fraction	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Aluminum Oxide – Respirable Fraction	TWA	1 mg/m ³	US. ACGIH Threshold Limit Values (2011)
	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Aluminum Oxide – Total Dust	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)

Chemical Identity	Type	Exposure Limit Value	Source
Crystalline Silica (Quartz)/ Silica Sand – Respirable Fraction	TWA	0.025 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand – Respirable	TWAE V	0.10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand – Respirable Dust	TWA	0.10 mg/m ³	Canada. Quebec OELs (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)
Portland Cement – Total Dust	TWA	10 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Portland Cement – Respirable Fraction	TWA	3 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Portland Cement	TWAE V	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Portland Cement – Total Dust	TWA	10 mg/m ³	Canada. Quebec OELs (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)
Portland Cement – Respirable Dust	TWA	5 mg/m ³	Canada. Quebec OELs (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium Carbonate (Limestone) – Total Dust	STEL	20 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) – Respirable Fraction	TWA	3 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances,

			Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) – Total Dust	TWA	10 mg/m3	Canada. Quebec OELs (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)

Appropriate Engineering Controls: Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual Protection Measures, Such as Personal Protective Equipment:

General Information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/Face Protection: Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection:

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation, use suitable respirator. Seek advice from local supervisor.

Hygiene Measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin.

SECTION 9: Physical and Chemical Properties

Appearance:

Physical state: Solid

Form: Powder

Color: Cream

Odor: Odorless

Odor threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point/boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No

Upper/lower flammability or explosive limits:

Flammability limit – upper (%): No data available

Flammability limit – lower (%): No data available

Explosive limit – upper (%): No data available

Explosive limit – upper (%): No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density: 3.1

Solubility(ies):

Solubility in water: Miscible with water

Solubility (other): No data available

Particle coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

SECTION 10: Stability and Reactivity

Reactivity:	No data available
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological Information

Information on Likely Routes of Exposure:

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucous membranes.
Skin Contact:	Causes skin irritation.
Eye Contact:	Causes serious eye damage.

Information on Toxicological Effects:

Acute Toxicity (list all possible routes of exposure):

Oral Product:	No data available
Dermal Product:	No data available
Inhalation Product:	No data available

Specified Substance(s):

Aluminum Oxide	NOAEL (rat, 4h): 10 mg/m ³
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Repeated Dose Toxicity Product: No data available

Skin Corrosion/Irritation Product: No data available

Serious Eye Damage/Eye Irritation Product: No data available

Specified Substance(s):

Aluminum Oxide	In vivo (rabbit, 24 hrs.): Not irritating
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Respiratory or Skin Sensitization Products: No data available

Carcinogenicity Product: No data available

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Crystalline Silica (Quartz)/Silica Sand	Overall evaluation: Carcinogenic to humans
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US National Toxicology Program (NTP) Report on Carcinogens:

Crystalline Silica (Quartz)/Silica Sand	Known to be human carcinogen
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US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In Vitro Product:	No data available
In Vivo Product:	No data available

Reproductive Toxicity Product: No data available
Specific Target Organ Toxicity – Single Exposure Product: No data available
Specific Target Organ Toxicity – Repeated Exposure Product: No data available
Aspiration Hazard Product: No data available
Other Effects: No data available

SECTION 12: Ecological Information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product: No data available
Aquatic Invertebrates Product: No data available

Chronic hazards to the aquatic environment:

Fish Product: No data available
Specified Substance(s):

Aluminum Oxide NOAEL (Pimephales promelas, 28 d): 4.7 mg/l experimental result

Aquatic Invertebrates Product: No data available
Toxicity to Aquatic Plants Product: No data available

Persistence and Degradability:

Biodegradation Product: No data available
BOD/COD Ratio Product: No data available

Bioaccumulative Potential:

Bioconcentration Factor (BCF) Product: No data available
Partition Coefficient n-octanol/ water (log Kow) Product: No data available

Mobility in Soil: No data available
Other Adverse Effects: No data available

SECTION 13: Disposal Considerations

Disposal Instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

SECTION 14: Transport Information

TDG: Not regulated
CFR/DOT: Not regulated
IMDG: Not regulated

SECTION 15: Regulatory Information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):
None present or none present in regulated quantities.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories

Immediate (Acute) Health Hazards

Delayed (Chronic) Health Hazards

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Crystalline Silica (Quartz)/ Silica Sand	500 lbs.
Portland Cement	500 lbs.
Calcium Carbonate (Limestone)	500 lbs.
Aluminum Oxide	500 lbs.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 69.130):

None present or none present in regulated quantities.

US State Regulations

US California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Crystalline Silica (Quartz)/Silica Sand

Portland Cement

Calcium Carbonate (Limestone)

US Massachusetts RTK – Substance List

Chemical Identity

Crystalline Silica (Quartz)/Silica Sand

Portland Cement

Calcium Carbonate (Limestone)

US Pennsylvania RTK – Hazardous Substances

Chemical Identity

Crystalline Silica (Quartz)/Silica Sand

Portland Cement

Calcium Carbonate (Limestone)

US Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present

Other Regulations:

Regulatory VOC (less water and exempt solvent): 0 g/l
VOC Method 310: 0.00%

Inventory Status:

Australia AICS:	All components in this product are listed on or exempt from the inventory.
Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from the inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the inventory.
US TSCA Inventory:	One or more components in this product are not listed on or exempt from the inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the inventory.

SECTION 16: Other Information, Including Date of Preparation or Last Revision

Revision Date:	9/18/2015
Version #:	1.0
Further Information:	No data available
Disclaimer:	For Industrial Use Only. Use at Own Risk. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



SAFETY DATA SHEET

Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

ADDITIVE (the liquid polymer in the Patch Kit)

Effective January 19, 2016

1. Substance/Preparation and Company Identification

Name of the Product: Acrylic Additive
Other Means of Identification: Low viscosity fluid
Recommended Use: Additive (polymer) for Patch Kit

Supplier Information: Preferred Deck Systems LLC
Company: 7534 W. Madison St.
 Tolleson, AZ 85353

Company Phone Number: 623.474.2210
Fax: 623.474.2251
Emergency Phone Number: 888.440.3320

2. Hazards Identification

GHS Classifications

Hazard	Category	Signal Word	Hazard statement	Symbol
Physical Hazards	None, not flammable	None	None	None
Health Hazards Acute Toxicity	5	Warning	H303, may be harmful if swallowed	None
Skin Corrosion /Irritation	None	None	None	None
Eye Irritation	None	None	None	None
Aspiration Hazard	None	None	None	None

Emergency Overview:

Warning! Contains small amounts of petroleum distillates that can cause chemical pneumonia if aspirated into the lungs as a liquid. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Eye and skin contact will result in irritation.

Route of Entry: Inhalation: yes. Skin: yes. Ingestion: yes.

Carcinogenicity: NTP: no. IARC: no. OSHA: no.

Reproductive Toxicity: No reproductive toxicants over 1% in formula.

Specific Target Organ Systemic Toxicity (TOST): Single Exposure: Irritating to the skin and eyes and respiratory tract. Prolonged exposure will affect the nervous system, causing nervous system depression.

Effects of Exposure:

Acute: Eye: H319: Causes serious eye irritation.

Skin: Causes Skin Irritation through defatting of skin with repeated contact over time. Reversible adverse effects in dermal tissue within the observation period, usually 14 days.

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis (central nervous system depression). Intentional inhalation in concentrated form (huffing) may lead to brain damage and death.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and effects of overexposure.

Signs and Symptoms of Overexposure:

Health Hazard: Diarrhea. Aspiration of material into lungs can cause chemical pneumonia which can be fatal.

Medical Conditions Aggravated by Exposure: Asthma, dermatitis.

LABELING:

Product identifier: Acrylic Additive

Signal word: Warning

Hazard statements: H303, may be harmful if swallowed.

Causes Skin and Eye Irritation. Do not breathe vapors or mist. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops and persists.

COMPANY NAME: **Preferred Deck Systems**

ADDRESS: **7534 W. Madison St.**

Tolleson, AZ 85353

Phone number: **888.440.3320**

HAZARDS: (Liquid) Serious skin and eye irritant.

Pictograms on the label:

No Pictograms needed.

Hazard Statements

H303 May be harmful if swallowed

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P305 +P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.

3. Composition/Information on Hazardous Ingredients

Hazardous Ingredients	CAS#	Percent w/w	OSHA PEL
None in the reportable quantity	NA*	NA	NA

*Note: NE=Not Established. NA=Not Applicable

Note: Further safety information can be found in subsequent sections.

4. First Aid Measures

General Information: Discard contaminated clothing immediately.

Eye: Flush with clean, lukewarm water for at least 15 minutes, occasionally lifting eyelids.

Obtain medical attention.

Skin: Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse.

Inhalation: Remove to fresh air. Apply artificial respiration/administer oxygen if necessary. Call physician immediately. If person is unconscious, transport affected person in reclined position.

Ingestion: Keep person warm and quiet. Get immediate medical attention. Do not induce vomiting because of risk of aspiration of material into lungs. Drink several glasses of water to dilute the product in the stomach.

5. Fire Fighting Measures

Flammability Summary (OSHA): Not Flammable

Flash Point Method: Setaflash

Flash Point: Greater than 200F (93C) (Setaflash).

Upper Flammable/Explosive Limit, % in air: Not Found

Lower Flammable/Explosive Limit, % in air: Not Found

When dry the product can be made to burn:

Upper Flammable /explosive limit, % in air: NA

Lower Flammable / explosive limit, % in air: NA

Unusual Fire/Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Closed containers may explode when exposed to fire due to pressure buildup.

Extinguishing Media: Use water fog, foam, carbon dioxide or chemical fire fighting apparatus.

Fire Fighting Instructions: Wear NIOSH/MSHA approved SCBA and full protective equipment. Do not use full pressure water jet.

Water spray may be used for cooling containers to prevent possible pressure build up and auto ignition/explosion when exposed.

Guard against toxic gasses released by fire. If safe, remove containers from fire zone.

Products of Combustion: Carbon Dioxide, Carbon Monoxide, Water Vapor.

6. Accidental Release Measures

Slip and fall hazard when the coating is wet. Evacuate the area of all unnecessary personnel. Ventilate area. Equip employees with appropriate protective equipment. Dike around spilled material. Cover spill with inert/absorbent material and shovel into container.

Remove containers to safe area and seal. Use sand or absorbent to collect material and to prevent flow into storm water or ground.

Waste Disposal Methods: Waste material must be disposed of in accordance with federal, state and local environmental regulatory controls.

7. Handling and Storage

Handling: Use drum trucks and pallet jacks to move drums and cans.

Drums: Protect against physical damage.

Bulk: Storage should be in standard lidded storage tanks.

Other Precautions: Clean up spills quickly to prevent slipping on the wet surface.

8. Exposure Controls and Personal Protection

Respiratory Protection:

Use NIOSH/MSHA approved self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits use NIOSH/MSHA approved vapor respirator or an airline respirator with escape bottle provisions.

Ventilation:

Local exhaust must be sufficient to keep airborne vapor concentrations below TLV limit. Exhaust air may need to be cleaned by scrubbers.

Protective Gloves: Chemical resistant gloves.

Eye Protection: Chemical workers' goggles.

Other Protective Equipment:

Eye bath and safety shower. To prevent repeated or prolonged skin contact wear impervious clothing and boots.

Work Hygiene Practices: Wash hands and clothing after exposure.

Supplemental Safety and Health: First aid procedures: Vomit can cause chemical pneumonia which can be fatal.

Ventilation: Filters to reduce environmental contamination.

Effects of overexposure: Irritating to respiratory system. Mild, reversible liver effects, liver abnormalities.

Exposure Limits:

Hazardous Ingredients	CAS#	Percent w/w	OSHA PEL
None above the reporting level	NA*	NA	NA

*NE=Not Established. NA=Not Applicable

9. Physical and Chemical Properties

Physical State: Liquid
Color: Characteristic
Odor: Slight
Odor Threshold: Not available.
pH Value: Not available
Melting point: Not available
Evaporation rate: Slower than ether
Freezing point: Not available.
Initial boiling point: 100C (212F)
Auto ignition Temperature: Not available.
Bulk Density: Approximately 8.51 pounds per gallon.
Flash Point: >200F PMCC
Upper Explosion Limit: Not established
Lower Explosion Limit: Not established
Solubility in Water: Miscible.
Specific Gravity: [1.02@20C\(68F\)](#)
Weight per gallon: 8.51 +/- 0.15 pounds
VOC: 0.26 pounds per gallon less water (31 g/l)

10. Stability and Reactivity

Stability and Reactivity Summary: Stable under normal conditions
Reactive Properties: Strong acids and bases will attack the polymer.
Sensitivity to mechanical shock: None
Hazardous Polymerization: Will not occur
Conditions to Avoid: Do not heat closed containers
Chemical Incompatibility: Strong oxidizing agents
Hazardous Decomposition Products: CO, CO2

11. Toxicological Information

Hazardous Ingredients	CAS#	Percent w/w	LD50 oral, rat, mg/kg
None above the reporting level	NA*	NA	NA

*NF=Not Found. NA=Not Applicable

12. Ecological Information

Environmental Toxicity: Some parts are not persistent in the environment. Ecotoxicity Classification criteria is between 1 and 100 for some of the ingredients. Most ingredients are carbon based and are eventually degraded by bacteria when placed in water or soil. Pigments do not travel through soil well. Some parts are hazardous to the aquatic environment, acute and long term.

13. Disposal Considerations

Care must be taken to avoid environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws.

Waste Disposal Summary: Dispose as a hazardous chemical.

Disposal Methods: Dispose of in accordance with local, state and federal regulations. Incineration is preferred.

14. Transport Information

US Ground (DOT):	Not regulated for transportation.
Canada (TDG):	Not regulated for transportation.
IMO:	Not regulated for transportation.
IATA/ICAO:	Not regulated for transportation.

15. Regulatory Information

UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

Superfund Amendments and Reauthorization Act (SARA) Title III: None present.

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

Immediate/Acute Health Hazard: Yes

Delayed/Chronic Health Hazard: Yes

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Federal and State Regulations:

California Prop 65: The following chemicals have been determined by the State of California to cause cancer in laboratory animals and are available in trace amounts in this product: None

CERCLA Reportable Quantities: None

HMS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: A

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

Health: 1

Flammability: 0

Reactivity: 0

16. Other Information

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Prepared by V.C. Bud Jenkins, BS, MBA, JD, CHMM, CHWP
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