



*Version:
8.30.2023*

PICOTE SOLUTIONS RESIN TECHNICAL INFORMATION

Standard Cure Dual Color DC1000E Coating Resins

Fast Cure Dual Color DC1000E Coating Resins

Xpress Coating System Resins

Fiber Bonded Epoxy Mastic

*Technical Data Sheets, Chemical Resistance Information,
ASTM Testing Results, NSF 61.5 Certification, SDS Sheets*

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**Please contact your Picote Reseller or Picote at:
Picote Solutions Inc., 777 W Pinnacle Peak Rd, Ste B-108
Phoenix, AZ 85027 - USA Tel: +1 864 940 0088**



PICOTE DUAL COLOR DC1000E COATING RESIN TECHNICAL SPECS



PRODUCT FACTS

This product has been created to renovate drains, sewers, water pipes, electrical conduits, heat and a/c ducts and more by brush casting a coating. The specially formulated coating resin forms a semi-structural corrosion resistant barrier inside the original pipe that is a tested, safe and environmentally friendly product.

The new pipe is corrosion resistant, wear-resistant and non-corrosive. Thanks to a high breaking stretch, it also withstands shocks and bending. The new pipe becomes elastic and antistatic.

USES

1. Extend the life span of the original pipe: The resin can be used to prolong the life of an existing pipe. Clean the pipe well. Apply single (0.5-1mm/coat) or dual coats of the resin. The new slick inner surface will increase the flow inside the pipe minimizing the risk of blockages.
2. Create a new semi-structural pipe: Apply several coats of the resin forming a seamless new pipe with a 2-4mm wall thickness depending on the diameter. Estimated 30-50 year design life when using Semi-Structural Design Specifications based on pipe diameter.

BENEFITS FOR CONTRACTORS

Extend the service life of a pipe, stop corrosion, create a new pipe, "patch" on top of CIPP liner and fortify connections*. Apply to small areas or all drains in multi-story buildings. The Picote Coating™ System is affordable, practical and easily fits in tight places. *Ensure that materials are compatible and the surface is properly prepared.

BENEFITS FOR PROPERTY OWNERS

Customers can stay at home or keep business open during drain renovation.

The Greener Alternative: Eliminating the need to destroy existing walls, gardens or sidewalks, the no-dig solution reduces waste produced at job sites. Interruptions to traffic are also minimized. All materials used are non-toxic.



PICOTE DUAL COLOR DC1000E COATING RESIN TECHNICAL SPECS

BASE MATERIALS/ PIPE DIAMETER	Size range 1¼" through 12" (DN32-DN300) pipes
WORKING METHOD	Coating with brush
HARDNESS	Adjustable Shore is 65+ (flexibility goes up when hardness goes down)
TENSILE STRENGTH	2970 PSI
ADHESION STRENGTH: METAL	803 PSI with static mixing tip
ADHESION STRENGTH: CONCRETE	100% concrete breakage when pulled away
PORTIONING	Not applicable
POT LIFE	Mixed resin about 25 min @ 70°F/21°C
HARDENING	Recoat: 3hrs @ 70°F/21°C Restore flow: 4hrs (24hrs for potable water projects) Final Cure: 24hrs Can be recoated within 12hrs with no prep, side grinding panels must be used after 12hrs
LEVELING	Product is self leveling.
GAS EMISSIONS	No harmful VOCs released during mixing or after hardening (VOC free)
DRY CONTENT	100% solids
TEMPERATURES	Installation: 50°F/10°C - 140°F/60°C Storage: Room Temp 60°F/15.5°C - 85°F/29°C Finished product: up to 180°F/82°C Most commercial hot water OK up to 180°F/82°C
GLOSS	Semi-gloss
THINNER	Not used
COVERAGE	See Picote Resin Calculator
SHRINKAGE	100% Solids - does not shrink
HUMIDITY	Hydrophobic repels water
UV RESISTANCE	Direct sunlight can alter color of coating
FLEXIBILITY	6,080 PSI
ELECTRICAL CONDUCTIVITY	Electrical insulating material, does not conduct electricity & is antistatic

PACKAGE SIZES:

6x 900ml: 2-part cartridge with 6 cartridges in each case

SHELF LIFE:

2 years from packaging when kept in accordance with storage instructions included in MSDS and Technical Data Sheet.

MIXING RATION: 2:1

2:1 mix ration by volume. No mixing required with prepackaged cartridges and supplied static mixing tip.

PICOTE DUAL COLOR DC1000E COATING RESIN TECHNICAL SPECS

STATIC PROPERTIES	Antistatic															
TESTS DC1000E	NSF/ANSI tested for standard 61-5															
MECHANICAL TESTING	ASTM Tested - please see results below:															
	<table><tr><td>Tensile Strength</td><td>ASTM D638-14</td><td>2979 psi</td></tr><tr><td>Compression Strength</td><td>ASTM D695-15</td><td>9570 psi</td></tr><tr><td>Flexural Modulus</td><td>ASTM D790-15e2</td><td>430 ksi</td></tr><tr><td>Flexural Strength</td><td>ASTM D790-14e2</td><td>6080 psi</td></tr><tr><td>Adhesive Strength</td><td>ASTM D4541</td><td>Substrate failure</td></tr></table>	Tensile Strength	ASTM D638-14	2979 psi	Compression Strength	ASTM D695-15	9570 psi	Flexural Modulus	ASTM D790-15e2	430 ksi	Flexural Strength	ASTM D790-14e2	6080 psi	Adhesive Strength	ASTM D4541	Substrate failure
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Flexural Modulus	ASTM D790-15e2	430 ksi														
Flexural Strength	ASTM D790-14e2	6080 psi														
Adhesive Strength	ASTM D4541	Substrate failure														
CERTIFICATIONS	Product certified to NSF/ANSI 372 conforms to the requirements for “Lead Free” plumbing products as defined by California, Vermont, Maryland and Louisiana. Standard: NSF/ANSI 61 Section 5 - 2016 Models: DC1000E Color: White Picote’s 100% Solids Epoxy Resin, DC1000E, is certified for potable water pipes DN100 (4”) and above. The final coat must be in White.															
INDUSTRIAL SAFETY	Ready-measured product must not be in contact with skin (it adheres)															
SAFETY DATA SHEET	Delivered with resin															
SHIPPING	The two part resin is packaged in sealed tubes and ships from USA. Suggested storage at room temperature and in accordance with the guidelines in Technical Data Sheet.															
TECHNICAL ENQUIRIES	Ryan Boldan, Global Learning Solutions Director 1-864 940-0088 / ryan@picotesolutions.com Richard Swan, Director of Client Technical Services 44 (0) 782 722 3237 / richard@picotesolutions.com															

Picote Brush Coating™ System

How long will the pipe be out of service?

Dry to touch in 3 hrs with ambient cure. Light wear 4 hours. Final hardness 24 hours.
Full service can be restored 4 hours after last coat has been applied (24hrs for potable).

Type of pipe:

Suitable for **cast iron, PVC, concrete, clay, copper, and stainless steel.**
Preparation of the coating surface is dependent on the material of the pipe.

Other application:

if used to coat outside during cold weather, use appropriate heat.

The Picote Brush Coating™ System is powered by the Picote Millers

The Mini or Maxi Coating Pump is conveniently set on the top of the Miller. The system is practical and easy to keep clean. Picote Millers can also be used for drain cleaning and reinstatements on lateral connections.





2110001001 PICOTE DUAL COLOR EPOXY DC1000E TECH DATA SHEET



DESCRIPTION

GENERAL DESCRIPTION 100% SOLIDS EPOXY

COLOR USAGE Contrasting colors (White & Gray) between coats.

Plural component epoxy used to rehabilitate concrete, PVC, fiberglass, clay, cast iron and ductile iron pipes. Creating a monolithic semi-structural repair of decayed and damaged pipelines. Designed exclusively for the Picote Brush Coating™ System.

SURFACE PREPARATION

CONCRETE Concrete must be jetted and cleaned removing any loose concrete. Must be free of grease and oil.

STEEL/DUCTILE IRON Near-White SSPC-SP10/NACE 2. Acceptable methods: sand blast, chain flail, or sanding side grinding panel. Remove debris.

STAINLESS STEEL Nace No. 1/SSPC SP-5 White Metal Blast. Special preparation in addition to Picote's cleaning tools may be needed.

ALL SURFACES MUST BE DRY, CLEAN AND FREE FROM OIL, GREASE, DEBRIS AND OTHER CONTAMINANTS!

TECHNICAL DATA

SOLIDS 100% (no solvents)

VOLATILE ORGANIC COMPOUNDS None

COVERAGE 20 mils per coat

CURE TIME AT	Recoat	Water Contact	Final Cure
	70° F 21° C	3 hours	4 hours

RECOAT Can be recoated within 12 hours. After 12 hours must be abraided with side grinding panels

NUMBER OF COMPONENTS 2

DESCRIPTION

NET WEIGHT 11.7 lbs/Gallon (1.2kg/Litre)

STORAGE TEMP 60°F/15.5°C - 85°F/29°C

SHELF LIFE Unopened: 24 months from date of manufacture when stored according to recommended conditions. Opened: up to 6 weeks

FLASH POINT 392°F (200°C)

2110001001 PICOTE DUAL COLOR EPOXY DC1000E TECH DATA SHEET

APPLICATION

RATE OF COVERAGE	Minimum	10 mils (0.3mm)	160 ft ² /gal (4m ² /litre)
	Maximum	20-40 mils (0.5-1mm)	80 ft ² /gal (2m ² /litre)
POT LIFE	20 minutes at 70°F (21°C)		
MIXING RATIO	2 to 1 in prepackaged cartridge		
APPLICATION EQUIPMENT	Picote Brush Coating™ System		

ASTM

Tensile Strength	ASTM D638-14	2979 psi
Compression Strength	ASTM D695-15	9570 psi
Flexural Modulus	ASTM D790-15e2	430 ksi
Flexural Strength	ASTM D790-14e2	6080 psi
Adhesive Strength	ASTM D4541	substrate failure

NSF 61.5 CERTIFICATION

Product certified to NSF/ANSI 372 conforms to the requirements or “Lead Free” plumbing products as defined by California, Vermont, Maryland and Louisiana.

Standard: NSF/ANSI 61 Section 5 - 2016

Models: DC1000E Color: White

Picote's 100% Solids Epoxy Resin, DC1000E, is certified for potable water pipes (DN100) 4" and above. The final coat must be in White.

CLEAN UP

Clean brush and pump hose fittings using acetone. Dispose of feed and pump hose.

REFER TO SAFETY DATA SHEET FOR SAFETY AND HEALTH INFORMATION

Please contact your reseller or Picote at coating@picotesolutions.com

**Picote Solutions Inc., 777 W Pinnacle Peak Rd, Ste B-108
Phoenix, AZ 85027 - USA Tel: +1 864 940 0088**



Certified Product Listing

For:

Drinking Water System Components - Health Effects

Company:

Picote Solutions, Inc.
20810 SE 18th Place
Sammamish, WA 98075, United States

Plant Location:

Sandy, UT, United States

Standards:

NSF/ANSI/CAN 61 - 2020

Certificate:

Issued Date: 03/29/2017

Material/Product:

Coatings

Contact Temperature:

23 ± 2°C

Models:

DC1000E



Product certified to NSF/ANSI/CAN 372 conforms to the requirements for "Lead Free" plumbing products as defined by California, Vermont, Maryland and Louisiana state laws and by section 1417 of the US SDWA.



Material Characteristics:

Minimum pipe diameter (inches): 4

Maximum pipe surface area/volume ratio (sq in/L): 61

Minimum tank size (gallons): 50

Maximum tank surface area/volume ratio (sq in/L): 16.8

Maximum dry film thickness per coat (mils): 125

Number of coats: 1

Is additional coating required (e.g. top coat, primer, intermediate coat)? (Y/N): No

Total cure time and temperature: 4 days @ 70°F

Shortest cure time between coats or layers: 2 hours

Final cure time: 4 days @ 70°F

Mix ratio: 2:1

Colors: White

Is this paint/coating system intended to be applied to a pipe? (Y/N): Yes

(1) Certified for use on a new pipe? (Y/N): Yes

(2) Certified for use on a pipe intended for immediate return to service? (Y/N): No

Additional comments:

Flushing or preparation instruction prior to use:

a) Flushing Time: General Flush at 15 minutes

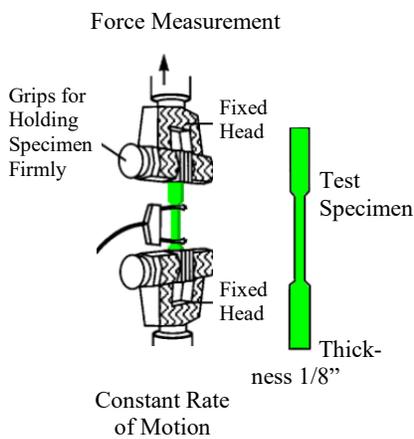
b) Temperature of Flush: 23 ± 2 °C

ASTM Testing on Picote’s Epoxy Coating System

TESTED PRODUCT: Picote Dual Color Epoxy **TEST 1**

A total of four tests were performed including:
 1. Tensile Strength 2. Compression Strength 3. Flexural Modulus 4. Coating Pull Off Strength.

TEST 1: ASTM D638-14 “Tensile Strength”



A piece of finished product, with a maximum thickness of .125-inches, is machined into a dog-bone shape. Each end of the test specimen is placed in opposite facing clamps which then attempt to pull it apart.

The PSI that it takes to break the specimen is calculated as "**Tensile Strength at the Break**". The "**Tensile Elongation at the Break**" is an additional measurement that shows how much the product stretches during this test. The "**Tensile Modulus**" is a measure taken to test rigidity. All of these measurements make up the "Tensile Strength" test. The D638-14 test would simulate separating pipe joints and the effect that would have on the product in question.

TEST 1 RESULTS: Picote Epoxy Coating Tensile Test

Test Method:	ASTM D638-14
Test Conditions:	23±2°C, 50±10% R.H.
Conditioning:	40+ hours, 23±2°C, 50±10% R.H.
Preparation:	Machined from sample sent by client
Specimen:	Type I tensile bars (2-inch gage length)
Cross Head Speed:	0.2-inches per minute

Sample	Replicate	Width (inches)	Thickness (inches)	Tensile Strength at Break (psi)	Tensile Elongation at Break (%)	Tensile Modulus at Young's (ksi)
P/N Picote Dual Coat 1000E*						
		0.5117	0.2209	2970	0.62	586
Requirement				n/a	n/a	n/a

*Picote Dual Color Epoxy 2110001001

ASTM Testing on Picote’s Epoxy Coating System

TESTED PRODUCT: Picote Dual Color Epoxy **TEST 2**

A total of four tests were performed including:
 1. Tensile Strength 2. Compression Strength 3. Flexural Modulus 4. Coating Pull Off Strength.

TEST 2: D695-15 “Compression Strength”



A sample of the product at approximately .25-inches is laid flat and a machine pushes down on the specimen until it begins to compress. The PSI it requires to shear the sample is its “**Compression Strength**”. The amount it swells when the pressure is applied is also measured.

This test will show how well the product can sustain loads. **Please note:** This test does not measure the Compression Strength of the cylinder that is created by the product inside the pipe.

TEST 2 RESULTS: Picote’s Epoxy Coating Compressive Test

Test Method:	ASTM D695-15
Test Conditions:	23±2°C, 50±10% R.H.
Conditioning:	40+ hours, 23±2°C, 50±10% R.H.
Preparation:	Machined from sample sent by client
Specimen:	Prism (1.0-inch length)
Cross Head Speed:	0.05 inches per minute

Sample	Replicate	Width (inches)	Thickness (inches)	Compressive Strength at Yield (PSI)
P/N Picote Dual Coat 1000E*				
		0.5260	0.2302	9570
Requirement				n/a

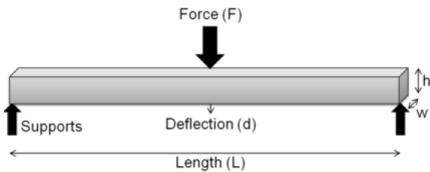
*Picote Dual Color Epoxy 2110001001

ASTM Testing on Picote’s Epoxy Coating System

TESTED PRODUCT: Picote Dual Color Epoxy **TEST 3**

A total of four tests were performed including:
 1. Tensile Strength 2. Compression Strength 3. Flexural Modulus 4. Coating Pull Off Strength.

TEST 3: D790-15e2 "Flexural Modulus"



This test is used to measure the horizontal strength of the material. Supports are placed under the sample at each end, and then a piston drives down at the center. The force to drive down and the amount of deflection are measured to come up with the specimen’s **“Flexural Modulus”**.

This test would simulate areas in a coated pipe that are being subjected to uneven stress.

TEST 3 RESULTS: Picote’s Epoxy Coating Flexural Test

Test Method: ASTM D790-15e2, Procedure A
 Test Conditions: 23±2°C, 50±10% R.H.
 Conditioning: 40+ hours, 23±2°C, 50±10% R.H.
 Preparation: Machined from sample sent by client
 Support Span: 3.641 inches
 Cross Head Speed: 0.090 inches per minute

Sample	Replicate	Width (inches)	Depth	Flexural Strength at Break (PSI)	Flexural Modulus (KSI)
P/N Picote Dual Coat 1000E*					
	2	0.5117	0.2142	6080	418
Requirement					

*Picote Dual Color Epoxy 2110001001

ASTM Testing on Picote’s Epoxy Coating System

TESTED PRODUCT: Picote Dual Color Epoxy

TEST 4

A total of four tests were performed including:

1. Tensile Strength
2. Compression Strength
3. Flexural Modulus
4. Coating Pull Off Strength.

TEST 4: D4541-09 “Coating Pull Off Strength”

In this test, a dolly is glued to the epoxy and allowed to cure. The sample is then cored using a hole saw. A device with a piston is attached that pulls away from the substrate until it breaks.



This test can look for two different outcomes depending upon the substrate used. When a brick or concrete substrate is used in a real-world application, it is testing whether or not that substrate breaks before the coating (product) does. If steel were to be used, however, the coating will always break before the substrate, so the PSI is also measured at the time of the break.

The D4541-09 test simulates a pipe (that has been coated with the product) breaking, failing, or becoming compromised in any way and how well the material would hold up and stay adhered under those circumstances.

TEST 4 RESULTS: Picote’s Epoxy Coating Pull-off Strength Test

Test Method:	ASTM D4541-09
Test Conditions:	23±5°C, 50±35% R.H.
Conditioning:	As sent by client
Preparation:	Coating as sent by client.
Specimen:	Loading fixture glued to coating
Instrument:	Fixed alignment test modified to use a tensile tester
Cross Head Speed:	0.2 inches per minute

TEST 4 RESULTS: Picote's Epoxy Coating Pull-off Strength Test continued

Sample	Replicate	Loading Fixure Diameter (inches)	Pull-Off Strength (psi)	Failure Mode
P/N Picote Dual Coat 1000E – Brick Substrate				
		0.500	>700	1-10% Coating Failure
P/N Picote Dual Coat 1000E – Metal Substrate				
		0.500	>803	1-10% Coating Failure
P/N Picote Dual Coat 1000E – Concrete Substrate				
		0.500	>798	0.1-1% Coating Failure
Requirement			n/a	

*Picote Dual Color Epoxy 2110001001

For more information on ASTM testing of Picote products, please contact:

Ryan Boldan
 Global Learning Solutions Director, Picote Solutions
 Ryan@picotesolutions.com
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CHEMICAL RESISTANCE DC100E

Acetic Acid (20%)	Excellent	Ferric Chloride	Excellent (temperature < 72oF, 22oC)
Acetone	Not Recommended	Ferric Sulfate	Excellent (temperature < 72oF, 22oC)
Acetylene	Excellent	Ferrous Chloride	Excellent (temperature < 72oF, 22oC)
Alcohol - Ethyl	Excellent (temperature < 120oF, 50oC)	Ferrous Sulfate	Excellent (temperature < 72oF, 22oC)
Alcohol - Isopropyl	Excellent	Fluorine gas	Note Recommended
Alcohol - Methyl	Good (temperature < 72oF, 22oC)	Fluosilicic acid	Fair
Aluminum Chloride	Excellent (temperature < 72oF, 22oC)	Formaldehyde, 40%	Excellent (temperature < 72oF, 22oC)
Aluminum Fluoride	Good (temperature < 72oF, 22oC)	Formic Acid	Fair (temperature < 72oF, 22oC)
Aluminum Hydroxide	Good (temperature < 72oF, 22oC)	Freon	Excellent
Aluminum Sulfate	Excellent (temperature < 72oF, 22oC)	Gasoline	Excellent
Amines	Excellent (temperature < 72oF, 22oC)	Glucose	Good
Ammonia - Liquid	Excellent (temperature < 72oF, 22oC)	Glycerine	Excellent
Ammonia 10%	Excellent (temperature < 72oF, 22oC)	Heptane	Excellent
Ammonium Carbonate	Excellent (temperature < 72oF, 22oC)	Hexane	Good
Ammonium Chloride	Excellent (temperature < 72oF, 22oC)	Hydraulic Fluid	Excellent
Ammonium Hydroxide	Excellent (temperature < 72oF, 22oC)	Hydrobromic Acid, 100%	Not Recommended
Ammonium Nitrate	Excellent (temperature < 72oF, 22oC)	Hydrochloric acid, 20%	Good (temperature < 72oF, 22oC)
Ammonium Phosphate	Excellent (temperature < 72oF, 22oC)	Hydrocyanic Acid	Excellent
Ammonium Sulfate	Excellent (temperature < 72oF, 22oC)	Hydrofluoric Acid, 75%	Good (temperature < 72oF, 22oC)
Amyl acetate	Excellent (temperature < 72oF, 22oC)	Hydrogen Peroxide, 10%	Fair (temperature < 72oF, 22oC)
Aniline	Fair (temperature < 72oF, 22oC)	Hydrogen Sulfide	Excellent
Barium Carbonate	Excellent (temperature < 72oF, 22oC)	Jet Fuel	Excellent
Barium Chloride	Excellent (temperature < 72oF, 22oC)	Kerosene	Excellent
Barium Hydroxide	Excellent (temperature < 72oF, 22oC)	Lactic Acid	Good (temperature < 72oF, 22oC)
Barium Sulfate	Fair (temperature < 72oF, 22oC)	Lead acetate	Excellent
Barium Sulfide	Good (temperature < 72oF, 22oC)	Magnesium Carbonate	Excellent
Beer	Excellent (temperature < 72oF, 22oC)	Magnesium Chloride	Excellent
Benzol	Excellent (temperature < 72oF, 22oC)	Magnesium Hydroxide	Excellent
Borax	Excellent (temperature < 72oF, 22oC)	Magnesium Nitrate	Excellent
Boric acid	Excellent (temperature < 72oF, 22oC)	Magnesium Sulfate	Excellent
Bromine	Excellent (100 ppm)	Maleic Acid	Excellent
Butadiene gas	Excellent (temperature < 72oF, 22oC)	Mercury	Excellent
Butane gas	Excellent (temperature < 72oF, 22oC)	Methyl Ethyl Ketone	Fair (temperature < 72oF, 22oC)
Butyl acetate	Good (temperature < 72oF, 22oC)	Naphtha	Excellent
Butaric Acid	Fair (temperature < 72oF, 22oC)	Naphthalene	Excellent
Calcium Bisulfite	Excellent (temperature < 72oF, 22oC)	Nickel Chloride	Excellent
Calcium Carbonate	Excellent (temperature < 72oF, 22oC)	Nickel Sulfate	Excellent
Calcium Chloride	Excellent (temperature < 72oF, 22oC)	Nitric Acid 5%	Good
Calcium Hydroxide	Excellent (temperature < 72oF, 22oC)	Oil - Castor	Excellent
Calcium Hypochlorite	Excellent (temperature < 72oF, 22oC)	Oleic acid	Excellent
Calcium Sulfate	Excellent (temperature < 72oF, 22oC)	Oxalic Acid	Excellent
Carbon dioxide gas	Excellent (temperature < 72oF, 22oC)	Phenol	Good
Carbon Tetrachloride	Excellent (temperature < 72oF, 22oC)	Phosphoric Acid	Good
Carbonic Acid	Good (temperature < 72oF, 22oC)	Picric Acid	Excellent
Citric Acid	Excellent (temperature < 72oF, 22oC)	Potassium Bicarbonate	Excellent
Copper Chloride	Excellent	Potassium Bromide	Excellent
Copper Nitrate	Excellent (temperature < 72oF, 22oC)	Potassium Carbonate	Excellent
Dichloroethane	Good (temperature < 120oF, 50oC)	Potassium Chloride	Excellent
Diesel Fuel	Excellent (temperature < 72oF, 22oC)	Potassium Dichromate	Fair
Ethyl acetate	Fair (temperature < 72oF, 22oC)	Potassium Hydroxide	Excellent
Ethyl chloride	Excellent (temperature < 72oF, 22oC)	Potassium Nitrate	Excellent
Ethylene glycol	Fair (temperature < 72oF, 22oC)	Potassium Sulfate	Excellent
Fatty Acids	Excellent (temperature < 72oF, 22oC)	Propane, liquid	Excellent

SAFETY DATA SHEET

SECTION 1 . IDENTIFICATION

Product Name: DUAL COAT BASE WHITE Product Code: PICOTE DC1000E BASE WHITE

Trade Name: DUAL COAT BASE

PICOTE SOLUTIONS
20810 SE 18TH PL
SAMMAMISH, WA 98075

EMERGENCY CONTACT: INFOTRAC
DOMESTIC & CANADA: 800-535-5053
INTERNATIONAL: 352-323-3500

MANUFACTURER CONTACT:
PICOTE SOLUTIONS
RYAN BOLDAN
777 WEST PINNACLE PEAK RD, STE. B108
PHOENIX, AZ 85027
TEL: 1.480.622.8314

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Skin corrosion/irritation	3	Reversible adverse effects in dermal tissue, Draize score: $\geq 1.5 < 2.3$
Skin sensitization	1	Skin sensitizer
Carcinogenicity	2	Limited evidence of human or animal carcinogenicity

GHS Hazards

H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see ... on this label)
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Warning



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Epoxy Resin	25085-99-8	40.00% - 50.00%
Barium Sulfate	7727-43-7	20.00% - 30.00%
Titanium Dioxide	13463-67-7	10.00% - 20.00%
Proprietary	68609-97-2	5.00% - 10.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 252 C (486 F)

LEL: N/A

UEL: N/A

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Keep people away. Isolate fire area and deny unnecessary entry. Do not use direct water stream. May spread fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight Fire from protected location or safe distance.

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material

Use appropriate containment and clean up immediately.

Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time.

No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Epoxy Resin 25085-99-8	Not Established	Not Established	Not Established
Barium Sulfate 7727-43-7	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	5 mg/m ³ TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Titanium Dioxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	Not Established

Proprietary 68609-97-2	Not Established	Not Established	Not Established
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Eye Protection

Protective eye wear is required when handling to prevent exposure to eyes.

Skin Protection

Use chemical resistant gloves when handling

Dispose of contaminated gear

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

<p>Appearance: Not Applicable</p> <p>Vapor Pressure: 10.0 mmHg</p> <p>Vapor Density: N/A</p> <p>Specific Gravity: 1.70</p> <p>Freezing point: Not Applicable</p> <p>Boiling range: 2500 - 3000°C</p> <p>Evaporation rate: Not Applicable</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p> <p>Viscosity: Not Applicable</p> <p>% Solids by Volume 0.36</p> <p>Lbs / Gal 14.19</p>	<p>Odor: Not Applicable</p> <p>Odor threshold: Not Applicable</p> <p>pH: Not Applicable</p> <p>Melting point: Not Applicable</p> <p>Solubility: Not Applicable</p> <p>Flash point: 486°F,252°C</p> <p>Flammability: 486°F,252°C</p> <p>Partition coefficient (n- Not Applicable octanol/water):</p> <p>Decomposition temperature: Not Applicable</p> <p>% VOL by Volume 0.00</p> <p>% Solids by Weight 0.03</p>
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SECTION 10. STABILITY and REACTIVITY

STABLE

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity
Component Toxicity

Eyes Respiratory System

Effects of Overexposure

CAS Number
13463-67-7

Description
Titanium Dioxide

% Weight
10% - 20%

Carcinogen Rating
Titanium Dioxide: NIOSH:
potential occupational carcinogen
IARC: Possible human carcinogen
OSHA: listed

SECTION 12. ECOLOGICAL INFORMATION

Component Ecotoxicity

SECTION 13. DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN3082 Environmentally Hazardous Substance, Liquid N.O.S. (Epoxy Resin)
Packaging Group III:
Hazardous Class 9

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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SECTION 15. REGULATORY INFORMATION

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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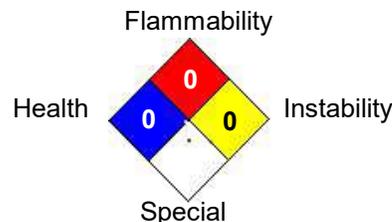
SECTION 16. ADDITIONAL INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date revised: 2023-08-08
Date Prepared: 8/8/2023

Reviewer Revision

SAFETY DATA SHEET

SECTION 1 . IDENTIFICATION

Product Name: DUAL COAT BASE GRAY Product Code: PICOTE DC1000E BASE GRAY

PICOTE SOLUTIONS
20810 SE 18TH PL
SAMMAMISH, WA 98075

EMERGENCY CONTACT: INFOTRAC
DOMESTIC & CANADA: 800-535-5053
INTERNATIONAL: 352-323-3500

MANUFACTURER CONTACT:
PICOTE SOLUTIONS
RYAN BOLDAN
777 WEST PINNACLE PEAK RD, STE. B108
PHOENIX, AZ 85027
TEL: 1.480.622.8314

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Skin corrosion/irritation	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Skin sensitization	1	Skin sensitizer
Carcinogenicity	2	Limited evidence of human or animal carcinogenicity

GHS Hazards

H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see ... on this label)
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Warning



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Epoxy Resin	25085-99-8	50.00% - 60.00%
Barium Sulfate	7727-43-7	20.00% - 30.00%
Titanium Dioxide	13463-67-7	10.00% - 20.00%
Proprietary	68609-97-2	5.00% - 10.00%
Inert	INERT	1.00% - 5.00%
Black Pigment	1333-86-4	0.10% - 1.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 252 C (486 F)

LEL: N/A

UEL: N/A

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Keep people away. Isolate fire area and deny unnecessary entry. Do not use direct water stream. May spread fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight Fire from protected location or safe distance.

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material

Use appropriate containment and clean up immediately.

Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time.

No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Epoxy Resin 25085-99-8	Not Established	Not Established	Not Established
Barium Sulfate 7727-43-7	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	5 mg/m ³ TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)

Titanium Dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
Proprietary 68609-97-2	Not Established	Not Established	Not Established
Inert INERT	Not Established	Not Established	Not Established
Black Pigment 1333-86-4	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable fraction)	NIOSH: 3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)

Eye Protection

Protective eye wear is required when handling to prevent exposure to eyes.

Skin Protection

Use chemical resistant gloves when handling

Dispose of contaminated gear

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

Boiling Range 2500 to 3000 °C Lbs VOC/Gallon Less Water 0.00 % VOL by Volume 0.00	Specific Gravity (SG) 1.624 Lbs VOC/Gallon Less 0.00 Exempt
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SECTION 10. STABILITY and REACTIVITY

STABLE

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Component Toxicity

Eyes Respiratory System

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
13463-67-7	Titanium Dioxide	10% - 20%	Titanium Dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
1333-86-4	Black Pigment	0.1% - 1.0%	Black Pigment: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

SECTION 12. ECOLOGICAL INFORMATION

Component Ecotoxicity

SECTION 13. DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN3082 Environmentally Hazardous Substance, Liquid N.O.S. (Epoxy Resin)
Packaging Group III:
Hazardous Class 9

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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SECTION 15. REGULATORY INFORMATION

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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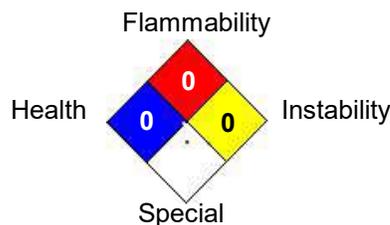
SECTION 16. ADDITIONAL INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH

National Fire Protection Association (NFPA)



Date revised: 2023-08-08
Date Prepared: 8/8/2023

Reviewer Revision

SAFETY DATA SHEET

PICOTE BRUSH COATING™ EPOXY RESIN
DUAL COAT CATALYST (COLOR:BLUE)

Revision date: 08-29-2023

SAFETY DATA SHEET

SECTION 1 . IDENTIFICATION

Product Name: DUAL COAT CATALYST BLUE Product Code: Picote DC1000 E CAT BLUE

PICOTE SOLUTIONS
20810 SE 18TH PL
SAMMAMISH, WA 98075

EMERGENCY CONTACT: INFOTRAC
DOMESTIC & CANADA: 800-535-5053
INTERNATIONAL: 352-323-3500
MANUFACTURER CONTACT:
PICOTE SOLUTIONS
RYAN BOLDAN
777 WEST PINNACLE PEAK RD, STE. B108, PHOENIX, AZ 85027
TEL: 1.480.622.8314

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Acute Toxicity - Oral	4	Oral>300+<=2000mg/kg
Skin corrosion/irritation	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Serious eye damage/eye irritation	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Skin sensitization	1	Skin sensitizer
Reproductive toxicity	2	Human or animal evidence possibly with other information

GHS Hazards

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn children

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood Avoid breathing dust/fume/gas/mist/vapours/spray
P261	
P264	Wash ... thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see ... on this label)
P330	Rinse mouth
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Danger



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Paratertiarybutylphenol	98-54-4	30.00% - 40.00%
Amine	1477-55-0	20.00% - 30.00%
1,5-Pentanediamine, 2 methyl	15520-10-2	20.00% - 30.00%
Silica	67762-90-7	5.00% - 10.00%
nonyl phenol	84852-15-3	1.00% - 5.00%
Copper Phthalocyanine	147-14-8	1.00% - 5.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 134 C (273 F)

LEL: N/A

UEL: N/A

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use appropriate containment and clean up immediately.

Corrosive. Avoid personal contact adn breathing vapor or mist. Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatable materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools.

No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Parateritarybutylphenol 98-54-4	Not Established	Not Established	Not Established
Amine 1477-55-0	Not Established	0.1 mg/m3 Ceiling	NIOSH: 0.1 mg/m3 Ceiling
1,5-Pentanediamine, 2 methyl 15520-10-2	Not Established	Not Established	Not Established
Silica 67762-90-7	Not Established	Not Established	Not Established
nonyl phenol 84852-15-3	Not Established	Not Established	Not Established
Copper Phthalocyanine 147-14-8	Not Established	Not Established	Not Established

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactory and meets OSHA or other recognized standards. Consult with local procedures for selection, training, and maintenance of the personal protective equipment. Always use adequate ventilation that comply with local regulations.

Eye/face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166

Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifying respirator may not provide adequate protection.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

Boiling Point 247 °C Lbs VOC/Gallon Less Water 0.00 % VOL by Volume 0.00	Specific Gravity (SG) 0.990 Lbs VOC/Gallon Less 0.00 Exempt
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SECTION 10. STABILITY and REACTIVITY

Stable, Hazardous polymerization will not occur. Will react with Epoxy Resins especially at elevated temperatures
STABLE

Epoxy Resins under uncontrolled conditions. Mineral acids. Organic acid, oxidizers, Reacts with metals until reacted with epoxy. Nitrogen oxides and other toxic and acidic gasses when burned.

None known

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 1,894mg/kg

Dermal Toxicity LD50: 3,184mg/kg
Inhalation Toxicity LC50: 2,872mg/L

Component Toxicity

98-54-4	Paratertiarybutylphenol Oral LD50: 3,250 µL/kg (Rat) Dermal LD50: 2,318 mg/kg (Rabbit)
1477-55-0	Amine Oral LD50: 660 mg/kg (Rat) Dermal LD50: 2 g/kg (Rabbit) Inhalation LC50: 700 ppm (Rat)
84852-15-3	nonyl phenol Oral LD50: 1,300 mg/kg (Rat) Dermal LD50: 2,031 mg/kg (Rabbit)

Eyes: Irritant to the eyes. Corrosive to Eyes

Skin: Irritant to the skin. Corrosive to Skin

Inhalation: Irritant to respiratory tract. Prolonged or excessive inhalation may cause respiratory tract irritation.

Sensitization: Skin sensitization in humans.

Eyes Kidneys Liver Skin Respiratory System

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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Avoid breathing vapors

Oral: N.D.A.

Dermal: N.D.A.

Inhalation: N.D.A.

SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product

Component Ecotoxicity

Paratertiarybutylphenol	96 Hr LC50 Pimephales promelas: 4.71 - 5.62 mg/L [flow-through]; 96 Hr LC50 Cyprinus carpio: 6.9 mg/L [static] 48 Hr EC50 Daphnia magna: 3.9 mg/L; 48 Hr EC50 Daphnia magna: 3.4 - 4.5 mg/L [Static] 72 Hr EC50 Desmodesmus subspicatus: 11.2 mg/L
nonyl phenol	96 Hr LC50 Pimephales promelas: 0.135 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.1351 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 0.14 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 0.36 - 0.48 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.16 - 0.72 mg/L [static]; 72 Hr EC50 Desmodesmus subspicatus: 1.3 mg/L

SECTION 13. DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: UN2735

Proper Shipping Name: Amines, liquid, corrosive, n.o.s.

Technical Name: Benzene-1,3-Dimethanamine,1,5-Pentanediamine, 2-Mthyl.

Transportation Hazardous Shipping Class: 8

Packing Group: II

Hazardous Label: 8 Corrosive Substance

Environmental Hazards-Marine Pollutant: Yes

SECTION 15. REGULATORY INFORMATION

OSHA:29 CFR 1910.1200 Hazardous Chemical "Irritant", Sensitizer

TSCA: Ingredients listed

SARA III: Sec311 & 312 Immediate Health Hazard; Sec313 Chemicals above de minimus level: None

CA PROP. 65 NOTICE WARNING:

CANADIAN REGULATORY INFORMATION

WHMIS; Hazard Classification: D2B Skin Sensitizer. Refer to SDS for specific warnings

WHMIS Symbols: Stylized T.

WHMIS Trade Secret Registry Numbers: None

Hazardous Products Act Information: This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14).

Country

Regulation

All Components Listed

SECTION 16. ADDITIONAL INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

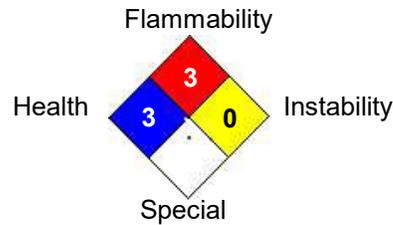
HMIS & NFPA Hazard Rating Legend

* = Chronic Health Hazard
0 = INSIGNIFICANT

1 = SLIGHT
2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



Date revised: 2023-08-28

Date Prepared: 8/28/2023

Reviewer Revision

SAFETY DATA SHEET

SECTION 1 . INDENTIFICATION

Product Name: DUAL COAT BASE (White) Product Code: PICOTE DC1000E BASE WHITE

Trade Name: DUAL COAT BASE

PICOTE SOLUTIONS
20810 SE 18TH PL
SAMMAMISH, WA 98075

EMERGENCY CONTACT: INFOTRAC
DOMESTIC & CANADA: 800-535-5053
INTERNATIONAL: 352-323-3500
MANUFACTURER CONTACT:
PICOTE SOLUTIONS
RYAN BOLDAN
777 WEST PINNACLE PEAK RD, STE. B108
PHOENIX, AZ 85027
TEL: 1.480.622.8314

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Skin sensitizer	1	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity

GHS Hazards

H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see ... on this label)
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Warning



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Epoxy Resin	25085-99-8	49.00%
Barium Sulfate	7727-43-7	20.00% - 30.00%
Titanium Dioxide	13463-67-7	10.00% - 20.00%
Proprietary	68609-97-2	5.00% - 10.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms
Rinse immediately with plenty of water for at least 15 minutes.
Immediately wash skin with soap and plenty of water.
If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: N/A
LEL: N/A UEL: N/A
Not applicable
Foam, Carbon dioxide (CO2) or dry chemical or water spray (water stream may be ineffective).
No information available
Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material
Use appropriate containment and clean up immediately.
Stop leak, Dike and contain spill.Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.
Avoid exposure to heat, light, and air for prolonged periods of time .
No information available.

SECTION 8.EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Epoxy Resin 25085-99-8	Not Established	Not Established	Not Established
Barium Sulfate 7727-43-7	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	5 mg/m3 TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Titanium Dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
Proprietary 68609-97-2	Not Established	Not Established	Not Established

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

<p>Appearance: Not Applicable</p> <p>Vapor Pressure: 10.0 mmHg</p> <p>Vapor Density: N/A</p> <p>Specific Gravity: 1.70</p> <p>Freezing point: Not Applicable</p> <p>Boiling range: 2500 - 3000°C</p> <p>Evaporation rate: Not Applicable</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p> <p>Viscosity: Not Applicable</p> <p>% Solids by Volume 1.08</p> <p>Lbs / Gal 14.19</p>	<p>Odor: Not Applicable</p> <p>Odor threshold: Not Applicable</p> <p>pH: Not Applicable</p> <p>Melting point: Not Applicable</p> <p>Solubility: Not Applicable</p> <p>Flash point: 999°F,999°C</p> <p>Flammability: 999°F,999°C</p> <p>Partition coefficient (n- octanol/water): Not Applicable</p> <p>Decomposition temperature: Not Applicable</p> <p>% VOL by Volume 0.00</p> <p>% Solids by Weight 0.08</p>
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SECTION 10. STABILITY and REACTIVITY

STABLE

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Component Toxicity

Eyes Respiratory System

Effects of Overexposure

CAS Number	Description	% Weight	Carcinogen Rating
13463-67-7	Titanium Dioxide	10 to 20%	Titanium Dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

SECTION 12. ECOLOGICAL INFORMATION

Component Ecotoxicity

SECTION 13. DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN3082 Environmentally Hazardous Substance, Liquid N.O.S. (Epoxy Resin)
Packaging Group III:
Hazardous Class 9

Agency Proper Shipping Name UN Number Hazard Class

SECTION 15. REGULATORY INFORMATION

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

13463-67-7 Titanium Dioxide 10 to 20 % Carcinogen

Country Regulation All Components Listed
EU REACH (EU) SUBSTANCES OF VERY HIGH CONCERN No
Toxic Substance Control Act (TSCA) Yes

EU Risk Phrases

Safety Phrase

- None

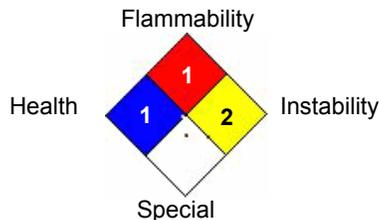
SECTION 16. ADDITIONAL INFORMATION

Hazardous Material Information System (HMIS)

Table with 4 rows: HEALTH (1), FLAMMABILITY (1), PHYSICAL HAZARD (2), PERSONAL PROTECTION (B)

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date revised: 2017-02-02
Date Prepared: 4/18/2018

Reviewer Revision

SAFETY DATA SHEET

SECTION 1 . INDENTIFICATION

Product Name: DUAL COAT BASE (GRAY) Product Code: PICOTE FAST CURE DC1000E BASE GRAY

Trade Name: DUAL COAT BASE

PICOTE SOLUTIONS
20810 SE 18TH PL
SAMMAMISH, WA 98075

EMERGENCY CONTACT: INFOTRAC
DOMESTIC & CANADA: 800-535-5053
INTERNATIONAL: 352-323-3500
MANUFACTURER CONTACT:
PICOTE SOLUTIONS
RYAN BOLDAN
777 WEST PINNACLE PEAK RD, STE. B108
PHOENIX, AZ 85027
TEL: 1.480.622.8314

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Skin sensitizer	1	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity

GHS Hazards

H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see ... on this label)
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Warning



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Epoxy Resin	25085-99-8	49.00%
Barium Sulfate	7727-43-7	20.00% - 30.00%
Titanium Dioxide	13463-67-7	10.00% - 20.00%
Proprietary	68609-97-2	5.00% - 10.00%
Black Pigment	1333-86-4	0.10% - 1.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: N/A

LEL: N/A

UEL: N/A

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material

Use appropriate containment and clean up immediately.

Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time.

No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Epoxy Resin 25085-99-8	Not Established	Not Established	Not Established
Barium Sulfate 7727-43-7	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	5 mg/m ³ TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Titanium Dioxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	Not Established
Proprietary 68609-97-2	Not Established	Not Established	Not Established

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

<p>Appearance: Not Applicable</p> <p>Vapor Pressure: 10.0 mmHg</p> <p>Vapor Density: N/A</p> <p>Specific Gravity: 1.70</p> <p>Freezing point: Not Applicable</p> <p>Boiling range: 2500 - 3000°C</p> <p>Evaporation rate: Not Applicable</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p> <p>Viscosity: Not Applicable</p> <p>% Solids by Volume 1.08</p> <p>Lbs / Gal 14.19</p>	<p>Odor: Not Applicable</p> <p>Odor threshold: Not Applicable</p> <p>pH: Not Applicable</p> <p>Melting point: Not Applicable</p> <p>Solubility: Not Applicable</p> <p>Flash point: 999°F,999°C</p> <p>Flammability: 999°F,999°C</p> <p>Partition coefficient (n- octanol/water): Not Applicable</p> <p>Decomposition temperature: Not Applicable</p> <p>% VOL by Volume 0.00</p> <p>% Solids by Weight 0.08</p>
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SECTION 10. STABILITY and REACTIVITY

STABLE

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Component Toxicity

Eyes Respiratory System

Effects of Overexposure

CAS Number	Description	% Weight	Carcinogen Rating
13463-67-7	Titanium Dioxide	10 to 20%	Titanium Dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

SECTION 12. ECOLOGICAL INFORMATION

Component Ecotoxicity

SECTION 13. DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN3082 Environmentally Hazardous Substance, Liquid N.O.S. (Epoxy Resin)
Packaging Group III:
Hazardous Class 9

Agency Proper Shipping Name UN Number Hazard Class

SECTION 15. REGULATORY INFORMATION

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

13463-67-7 Titanium Dioxide 10 to 20 % Carcinogen

Country Regulation All Components Listed
EU REACH (EU) SUBSTANCES OF VERY HIGH CONCERN No
Toxic Substance Control Act (TSCA) Yes

EU Risk Phrases

Safety Phrase

- None

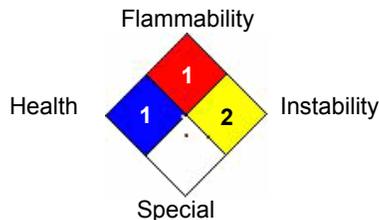
SECTION 16. ADDITIONAL INFORMATION

Hazardous Material Information System (HMIS)

Table with 4 rows: HEALTH (1), FLAMMABILITY (1), PHYSICAL HAZARD (2), PERSONAL PROTECTION (B)

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date revised: 2017-02-02

Date Prepared: 4/18/2018

Reviewer Revision

SAFETY DATA SHEET

SECTION 1 . IDENTIFICATION

Product Name: DUAL COAT RAPID SET CATALYST (10MIN) Product Code: Picote DC1000E RS CAT

PICOTE SOLUTIONS
20810 SE 18TH PL
SAMMAMISH, WA 98075

EMERGENCY CONTACT: INFOTRAC
DOMESTIC & CANADA: 800-535-5053
INTERNATIONAL: 352-323-3500
MANUFACTURER CONTACT:
PICOTE SOLUTIONS
RYAN BOLDAN
777 WEST PINNACLE PEAK RD, STE. B108, PHOENIX, AZ 85027
TEL: 1.480.622.8314

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Flammable liquid	4	Flash point $\geq 60^{\circ}\text{C}$ (140°F) and $\leq 93^{\circ}\text{C}$ (200°F)
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5
Skin sensitizer	1	Skin sensitizer
Reproductive toxin	2	Human or animal evidence possibly with other information

GHS Hazards

H227	Combustible liquid
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P235	Keep cool
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash ... thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see ... on this label)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P370+P378	In case of fire: Use ... for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container to ...

Signal Word: Danger



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Amine	217-168-8	60.00% - 70.00%
Amine	1477-55-0	10.00% - 20.00%
Benzyl Alcohol	100-51-6	5.00% - 10.00%
Proprietary	Proprietary	7.60%
Silica	67762-90-7	1.00% - 5.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 93 C (199 F)

LEL: N/A

UEL: N/A

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Use appropriate containment and clean up immediately.

Corrosive. Avoid personal contact and breathing vapor or mist. Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from

sources of heat and incompatible materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools.

No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Amine 217-168-8	Not Established	Not Established	Not Established
Amine 1477-55-0	Not Established	0.1 mg/m3 Ceiling	NIOSH: 0.1 mg/m3 Ceiling
Benzyl Alcohol 100-51-6	Not Established	Not Established	Not Established
Proprietary Proprietary	Not Established	Not Established	Not Established
Silica 67762-90-7	Not Established	Not Established	Not Established

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Always use adequate ventilation that comply with local regulations. Eye/face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face Protection regulation, or the European standard EN 166
Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing. Respiratory Protection: A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

Boiling Range 205 to 247 °C Lbs VOC/Gallon Less Water 0.00 % VOL by Volume 0.00	Specific Gravity (SG) 1.092 Lbs VOC/Gallon Less Exempt 0.00
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SECTION 10. STABILITY and REACTIVITY

Stable, Hazardous polymerization will not occur. Will react with Epoxy Resins especially at elevated temperatures

STABLE

Epoxy Resins under uncontrolled conditions. Mineral acids. Organic acid, oxidizers, Reacts with metals until reacted with epoxy.

None known

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 3,907mg/kg

Inhalation Toxicity LC50: 92mg/L

Component Toxicity

1477-55-0

Amine

Oral LD50: 660 mg/kg (Rat) Dermal LD50: 2 g/kg (Rabbit) Inhalation LC50: 700 ppm (Rat)

100-51-6

Benzyl Alcohol

Oral LD50: 1,230 mg/kg (Rat) Dermal LD50: 2 g/kg (Rabbit) Inhalation LC50: 9 mg/L (Rat)

Eyes: Irritant to the eyes. Corrosive to Eyes
 Skin: Irritant to the skin. Corrosive to Skin
 Inhalation: Irritant to respiratory tract. Prolonged or excessive inhalation may cause respiratory tract irritation.
 Sensitization: Skin sensitization in humans.

Eyes Kidneys Liver Skin Respiratory System

Effects of Overexposure

CAS Number	Description	% Weight	Carcinogen Rating
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Avoid breathing vapors

Oral: N.D.A.
 Dermal: N.D.A.
 Inhalation: N.D.A.

SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product

Component Ecotoxicity

Benzyl Alcohol	96 Hr LC50 Pimephales promelas: 460 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 10 mg/L [static] 48 Hr EC50 water flea: 23 mg/L
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SECTION 13. DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN2735 Amines, Liquid, corrosive, n.o.s. (Benzene-1,3-Dimethanamine,1,5-Pentanediamine, 2-Mthyl).
 DOT Hazad Class 8
 DOT Packaging Class II

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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SECTION 15. REGULATORY INFORMATION

OSHA:29 CFR 1910.1200 Haxardous Chemical "Irritant", Sensitizer
 (40 CFR 372.65) Supplier Notification Required
 TSCA: Ingredients listed
 SARA III: Sec311 & 312 Immediate Health Haxard; Sec313 Chemicals above de minimus level: None
 CA PROP. 65 NOTICE WARNING:

CANADIAN REGULATORY INFORMATION

WHMIS; Hazard Classification: D2B Skin Sensitizer. Refer to SDS for specific warnings
 WHMIS Symbols: Stylized T.
 WHMIS Trade Secret Registry Numbers: None
 Hazardous Products Act Informtion: This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14)

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- 217-168-8 Amine 60 - 70%
- 100-51-6 Benzyl Alcohol 5 - 10%

The following chemicals are classified under SARA 313 Toxic Release Invetnory (TRI):

- 217-168-8 Amine 60 - 70%

Country
EU

Regulation
REACH (EU) SUBSTANCES OF VERY HIGH CONCERN
Toxic Substance Control Act (TSCA)

All Components Listed
No
No

EU Risk Phrases

Safety Phrase

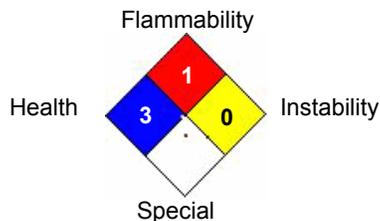
SECTION 16. ADDITIONAL INFORMATION

Hazardous Material Information System (HMIS)

HEALTH		3
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION		H

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date revised: 2019-08-08

Date Prepared: 8/8/2019

Reviewer Revision

SAFETY DATA SHEET

SECTION 1 . INDENTIFICATION

Product Name: ACTIVATOR Approved 3/29/23 Express 1:1 Product Code: XPRESS B

Picote Solutions
20 10 SE 1 th P
Sa a ish W 0

EMERGENCY CONTACT: INFOTRAC
DOMESTIC & CANADA : 800-535-5053
INTERNATIONAL: 352-323-3500

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Skin corrosion/irritation	1B	Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal
Serious eye damage/eye irritation	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Skin sensitization	1	Skin sensitizer
Carcinogenicity	2	Limited evidence of human or animal carcinogenicity
Reproductive toxicity	2	Human or animal evidence possibly with other information

GHS Hazards

H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash ... thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see ... on this label)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Danger



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Aminoethyl piperazine, 1-(2-, (AEP)	140-31-8	80.00% - 90.00%
nonyl phenol	84852-15-3	5.00% - 10.00%
Amine	217-168-8	5.00% - 10.00%
Inert	INERT	1.00% - 5.00%
Black Pigment	1333-86-4	0.10% - 1.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: N/A

LEL: N/A

UEL: N/A

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Use appropriate containment and clean up immediately.

Corrosive. Avoid personal contact and breathing vapor or mist. Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatible materials. Eliminate all ignition materials and incompatible materials.

Collect spill with non spark tools.

No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Aminoethyl) piperazine, 1-(2-, (AEP) 140-31-8	Not Established	Not Established	Not Established
nonyl phenol 84852-15-3	Not Established	Not Established	Not Established
Amine 217-168-8	Not Established	Not Established	Not Established
Inert INERT	Not Established	Not Established	Not Established
Black Pigment 1333-86-4	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable fraction)	NIOSH: 3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactory and meets OSHA or other recognized standards. Consult with local procedures for selection, training, and maintenance of the personal protective equipment. Always use adequate ventilation that comply with local regulations.

Eye/face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166

Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifying respirator may not provide adequate protection.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

Specific Gravity (SG) 0.988 Lbs VOC/Gallon Less 0.00 Exempt	Lbs VOC/Gallon Less Water 0.00 % VOL by Volume 0.00
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SECTION 10. STABILITY and REACTIVITY

Stable, Hazardous polymerization will not occur. Will react with Epoxy Resins especially at elevated temperatures

STABLE

Epoxy Resins under uncontrolled conditions. Mineral acids. Organic acid, oxidizers, Reacts with metals until reacted with epoxy.

None known

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Component Toxicity

84852-15-3 nonyl phenol
 Oral LD50: 1,300 mg/kg (Rat) Dermal LD50: 2,031 mg/kg (Rabbit)

Eyes: Irritant to the eyes. Corrosive to Eyes
Skin: Irritant to the skin. Corrosive to Skin
Inhalation: Irritant to respiratory tract. Prolonged or excessive inhalation may cause respiratory tract irritation.
Sensitization: Skin sensitization in humans.

Eyes Respiratory System

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
1333-86-4	Black Pigment	0.1% - 1.0%	Black Pigment: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

Avoid breathing vapors

Oral: N.D.A.
Dermal: N.D.A.
Inhalation: N.D.A.

SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product

Component Ecotoxicity

nonyl phenol	96 Hr LC50 Pimephales promelas: 0.135 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.1351 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 0.14 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 0.36 - 0.48 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.16 - 0.72 mg/L [static]; 72 Hr EC50 Desmodemus subspicatus: 1.3 mg/L
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SECTION 13. DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN proper shipping name: Amines, liquid, corrosive, n.o.s.

Transportation Hazardous Shipping Class: 8

UN number: UN2735

Packing Group: II

Hazardous label: 8 Corrosive Substance

Environmental hazards-marine pollutant: Yes

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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SECTION 15. REGULATORY INFORMATION

OSHA:29 CFR 1910.1200 Haxardous Chemical "Irritant", Sensitizer

TSCA: Ingredients listed

SARA III: Sec311 & 312 Immediate Health Haxard; Sec313 Chemicals above de minimus level: None

CA PROP. 65 NOTICE WARNING:

CANADIAN REGULATORY INFORMATION

WHMIS; Hazard Classification: D2B Skin Sensitizer. Refer to SDS for specific warnings

WHMIS Symbols: Stylized T.

WHMIS Trade Secret Registry Numbers: None

Hazardous Products Act Informtion: This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List

Country

Regulation

All Components Listed

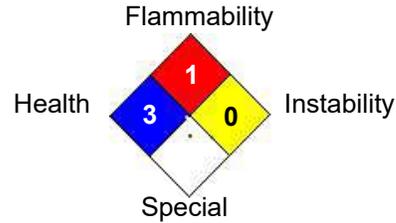
SECTION 16. ADDITIONAL INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="checkbox"/>	3
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date Revised: 8/8/2023
Date Prepared: 7/27/2023

Reviewer Revision

SAFETY DATA SHEET

PICOTE BRUSH COATING™ EPOXY RESIN
XPRESS A (COLOR: WHITE)

Revision date: 8-9-2023

SAFETY DATA SHEET

SECTION 1 . IDENTIFICATION

Product Name: PICOTE Approved 3/29/23 Express 1:1 Product Code: XPRESS A

Picote Solutions
20810 SE 18th PL
Sammamish, WA 98075

EMERGENCY CONTACT: INFOTRAC
DOMESTIC & CANADA : 800-535-5053
INTERNATIONAL: 352-323-3500

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Skin corrosion/irritation	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Skin sensitization	1	Skin sensitizer
Carcinogenicity	2	Limited evidence of human or animal carcinogenicity

GHS Hazards

H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see ... on this label)
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Warning



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Epoxy Resin	25085-99-8	70.00% - 80.00%
Titanium Dioxide	13463-67-7	10.00% - 20.00%
Proprietary	68609-97-2	5.00% - 10.00%
Silica	67762-90-7	1.00% - 5.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 252 C (486 F)

LEL: N/A

UEL: N/A

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Use appropriate containment and clean up immediately.

Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatible materials. Eliminate all ignition materials and incompatible materials.

Collect spill with non spark tools.

No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Epoxy Resin 25085-99-8	Not Established	Not Established	Not Established
Titanium Dioxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	Not Established
Proprietary 68609-97-2	Not Established	Not Established	Not Established
Silica 67762-90-7	Not Established	Not Established	Not Established

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where

such systems are not effective wear suitable personal protective equipment, which preforms satisfactory and meets OSHA or other recognized standards. Consult with local procedures for selection, training, and maintenance of the personal protective equipment Always use adequate ventilation that comply with local regulations.

Eye/face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166

Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifying respirator may not provide adequate protection.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

Boiling Range 2500 to 3000 °C Lbs VOC/Gallon Less Water 0.00 % VOL by Volume 0.00	Specific Gravity (SG) 1.258 Lbs VOC/Gallon Less 0.00 Exempt
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SECTION 10. STABILITY and REACTIVITY

Stable, Hazardous polymeraization will not occur.

STABLE

Strong acids, caustics, oxidizers, Avoid uncontrolled exposure to Epoxy Resin, Amine.

No Data Found

None known, other than Sec. #2 and Sec #5

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity
Component Toxicity

No Data Found

Respiratory System

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
13463-67-7	Titanium Dioxide	10% - 20%	Titanium Dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

Avoid breathing vapors

Oral: N.D.A.
Dermal: N.D.A.
Inhalation: N.D.A.



**2110002001 PICOTE FIBER BONDED
MASTIC TECH DATA SHEET**

DESCRIPTION

GENERAL DESCRIPTION	100% SOLIDS TROWELABLE EPOXY
COLOR	Gloss white
USAGE	Used to protect new infrastructure and to rehabilitate existing damaged infrastructure.
PERFORMANCE	<ul style="list-style-type: none"> • Manholes, wet wells, vaults & septic tanks • Steel substrates • Floor and wall penetrations/cracks • Simple spot repair • Extreme bonding to nearly all substrates • Fast curing • Easy workability • ¼" build capability with no sag • No mixing means faster application

SURFACE PREPARATION

CONCRETE/BRICK	Substrate surface must be Hydro Blasted at 3000 psi., removing any loose concrete or other material. Must be free of grease and oil.
STEEL	Sand blast to a Nace No. 1/SSPC SP-5 White Metal Profile.

ALL SURFACES MUST BE DRY, CLEAN AND FREE FROM OIL, GREASE, DEBRIS AND OTHER CONTAMINANTS!

TECHNICAL DATA

SOLIDS	100% (no solvents)		
VOLATILE ORGANIC COMPOUNDS	one		
COVERAGE	125 to 250 mils per coat -		
CURE TIME AT 70°F (21° C)	Recoat	Water Contact	Final Cure
	2 hours	4 hours	24 hours
RECOAT	Must be abraded with the equivalent of 36 grit sand paper after 24 hrs.		
NUMBER OF COMPONENTS	2		

2110002001 PICOTE FIBER BONDED MASTIC TECH DATA SHEET

DESCRIPTION

NET WEIGHT	2.5lbs 1 1 usable material/cartridge 15lbs . usable material/case (6 cartridges)
STORAGE TEMP	70°F 21 C
SHELF LIFE	24 months unopened
FLASH POINT	n/a

RATE OF COVERAGE	Sqft/gallon 2 0 ils . ft ² . ² allon 12 ils allon 1.2 ²) Sqft/case 250mils (6mm) 9.12 ft ² (.8 m ²) Case 125mils (3mm) Gallon (1.7m ²)
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POT LIFE 10 inutes at 0 F 21 C

MIXING RATIO 2 to 1 in re ac a e cartri e. Iso a aila le in uc ets. se ith Picote S art Mi er 2.0 a cor less cartri e is enser. se only the aterial that the o re uires lea in irtually no aste aterial.

APPLICATION EQUIPMENT Directly a lie to su strate fro static i in ti . se tro el or utty nife to s ooth aterial.

ENVIRONMENTALLY SAFE: No harmful VOC's or odors. Disposable packaging and minimal waste.

ASTM

Tensile Strength	ASTM D638-14	4150 psi
Compression Strength	ASTM D695-13	9650 psi
Flexural Modulus	ASTM D790-15e2	8950 psi
Flexural Strength	Procedure A	437 ksi
Coating Pull Off Strength Test	ASTM D4541-09	substrate failure

CLEAN UP

Acetone. REFER TO SAFETY DATA SHEET FOR SAFETY AND HEALTH INFORMATION.

Please Contact your reseller or Picote at coating@picotesolutions.com

**Picote Solutions Inc., 777 W Pinnacle Peak Rd, Ste B-108
Phoenix, AZ 85027 - USA Tel: +1 864 940 0088**

ASTM Testing on Fiber Bonded Epoxy Mastic

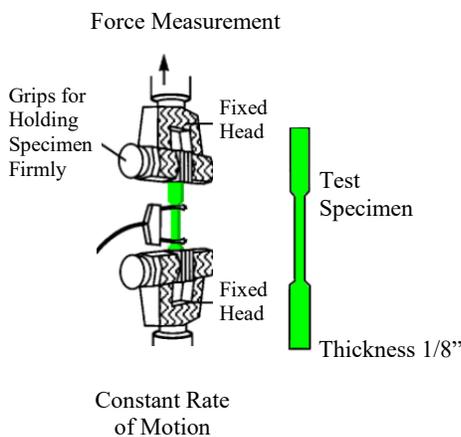
TESTED PRODUCT: Picote Fiber Bonded Mastic

TEST 1

A total of four tests were performed including:

1. Tensile Strength
2. Compression Strength
3. Flexural Modulus
4. Coating Pull Off Strength.

TEST 1: ASTM D638-14 “Tensile Strength”



A piece of finished product, with a maximum thickness of .125-inches, is machined into a dog-bone shape. Each end of the test specimen is placed in opposite facing clamps which then attempt to pull it apart.

The PSI that it takes to break the specimen is calculated as "**Tensile Strength at the Break**". The "**Tensile Elongation at the Break**" is an additional measurement that shows how much the product stretches during this test. The "**Tensile Modulus**" is a measure taken to test rigidity. All of these measurements make up the "Tensile Strength" test. The D638-14 test would simulate separating pipe joints and the effect that would have on the product in question.

TEST 1 RESULTS: Picote Fiber Bonded Mastic Tensile Test

Test Method: ASTM D638-14
 Test Conditions: 23±2°C, 50±10% R.H.
 Conditioning: 40+ hours, 23±2°C, 50±10% R.H.
 Preparation: Machined from sample sent by client
 Specimen: Type I tensile bars (2-inch gage length)
 Cross Head Speed: 0.2-inches per minute

Sample	Replicate	Width (inches)	Thickness (inches)	Tensile Strength at Break (psi)	Tensile Elongation at Break (%)	Tensile Modulus at Young's (ksi)
P/N Picote Fiber Bonded Mastic						
		0.5090	0.3062	4000	0.66	644
Requirement				n/a	n/a	n/a

ASTM Testing on Fiber Bonded Epoxy Mastic

TESTED PRODUCT: Picote Fiber Bonded Mastic

TEST 2

A total of four tests were performed including:

1. Tensile Strength
2. Compression Strength
3. Flexural Modulus
4. Coating Pull Off Strength.

TEST 2: D695-15 “Compression Strength”



A sample of the product at approximately .25-inches is laid flat and a machine pushes down on the specimen until it begins to compress. The PSI it requires to shear the sample is its “**Compression Strength**”. The amount it swells when the pressure is applied is also measured.

This test will show how well the product can sustain loads. **Please note:** This test does not measure the Compression Strength of the cylinder that is created by the product inside the pipe.

TEST 2 RESULTS: Picote Fiber Bonded Mastic Compressive Test

Test Method:	ASTM D695-15
Test Conditions:	23±2°C, 50±10% R.H.
Conditioning:	40+ hours, 23±2°C, 50±10% R.H.
Preparation:	Machined from sample sent by client
Specimen:	Prism (1.0-inch length)
Cross Head Speed:	0.05 inches per minute

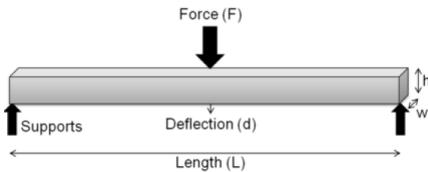
Sample	Replicate	Width (inches)	Thickness (inches)	Compressive Strength at Yield (PSI)
P/N Picote Fiber Bonded Mastic				
		0.5142	0.3068	9650
Requirement				n/a

ASTM Testing on Fiber Bonded Epoxy Mastic

TESTED PRODUCT: Picote Fiber Bonded Mastic **TEST 3**

A total of four tests were performed including:
 1. Tensile Strength 2. Compression Strength 3. Flexural Modulus 4. Coating Pull Off Strength.

TEST 3: D 790-15e2 "Flexural Modulus"



This test is used to measure the horizontal strength of the material. Supports are placed under the sample at each end, and then a piston drives down at the center. The force to drive down and the amount of deflection are measured to come up with the specimen's "**Flexural Modulus**".

This test would simulate areas in a coated pipe that are being subjected to uneven stress.

TEST 3 RESULTS: Picote Fiber Bonded Mastic Flexural Test

Test Method: ASTM D790-15e2, Procedure A
 Test Conditions: 23±2°C, 50±10% R.H.
 Conditioning: 40+ hours, 23±2°C, 50±10% R.H.
 Preparation: Machined from sample sent by client
 Support Span: 5.184 inches
 Cross Head Speed: 0.150 inches per minute

Sample	Replicate	Width (inches)	Depth	Flexural Strength at Break (PSI)	Flexural Modulus (KSI)
P/N Picote Fiber Bonded Mastic					
	2	0.5172	0.2860	7050	437
Requirement				n/a	n/a

ASTM Testing on Fiber Bonded Epoxy Mastic

TESTED PRODUCT: Picote Fiber Bonded Mastic

TEST 4

A total of four tests were performed including:

1. Tensile Strength
2. Compression Strength
3. Flexural Modulus
4. Coating Pull Off Strength.

TEST 4: D4541-09 “Coating Pull Off Strength”

In this test, a dolly is glued to the epoxy and allowed to cure. The sample is then cored using a hole saw. A device with a piston is attached that pulls away from the substrate until it breaks.



This test can look for two different outcomes depending upon the substrate used. When a brick or concrete substrate is used in a real-world application, it is testing whether or not that substrate breaks before the coating (product) does. If steel were to be used, however, the coating will always break before the substrate, so the PSI is also measured at the time of the break.

The D4541-09 test simulates a pipe (that has been coated with the product) breaking, failing, or becoming compromised in any way and how well the material would hold up and stay adhered under those circumstances.

TEST 4 RESULTS: Picote Fiber Bonded Mastic Pull-off Strength Test

Test Method:	ASTM D4541-09
Test Conditions:	23±5°C, 50±35% R.H.
Conditioning:	As sent by client
Preparation:	Coating as sent by client.
Specimen:	Loading fixture glued to coating
Instrument:	Fixed alignment test modified to use a tensile tester
Cross Head Speed:	0.2 inches per minute

TEST 4 RESULTS: Picote Fiber Bonded Mastic Pull-off Strength Test continued

Sample	Replicate	Loading Fixure Diameter (inches)	Pull-Off Strength (psi)	Failure Mode
P/N Picote Fiber Bonded Mastic – Brick Substrate				
		0.500	>502	Substrate
P/N Picote Fiber Bonded Mastic – Metal Substrate				
		0.500	>5	Coating
P/N Picote Fiber Bonded Mastic – Concrete Substrate				
		0.500	>384	.Substrate
Requirement			n/a	

For more information on ASTM testing of Picote products, please contact:

Ryan Boldan
 Global Learning Solutions Director, Picote Solutions
 Ryan@picotesolutions.com
 +1 (480) 622-8314



Avoid breathing vapors

Oral: N.D.A.
Dermal: N.D.A.
Inhalation: N.D.A.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Paratertiarybutylphenol	98-54-4	30.00% - 40.00%
Amine	1477-55-0	20.00% - 30.00%
1,5-Pentanediamine, 2 methyl	15520-10-2	20.00% - 30.00%
Silica	67762-90-7	10.00% - 20.00%
nonyl phenol	84852-15-3	1.00% - 5.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 134 C (273 F)

LEL:

UEL:

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use appropriate containment and clean up immediately.

Corrosive. Avoid personal contact and breathing vapor or mist. Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatible materials. Eliminate all ignition materials and incompatible materials. Collect

spill with non spark tools.
No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Paratertiarybutylphenol 98-54-4	Not Established	Not Established	Not Established
Amine 1477-55-0	Not Established	0.1 mg/m ³ Ceiling	NIOSH: 0.1 mg/m ³ Ceiling
1,5-Pentanediamine, 2 methyl 15520-10-2	Not Established	Not Established	Not Established
Silica 67762-90-7	Not Established	Not Established	Not Established
nonyl phenol 84852-15-3	Not Established	Not Established	Not Established

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactory and meets OSHA or other recognized standards. Consult with local procedures for selection, training, and maintenance of the personal protective equipment. Always use adequate ventilation that comply with local regulations.

Eye/face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166

Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifying respirator may not provide adequate protection.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

Boiling Point 247 °C Lbs VOC/Gallon Less Water 0.00	Specific Gravity (SG) 0.970 Lbs VOC/Gallon Less 0.00 Exempt
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SECTION 10. STABILITY and REACTIVITY

Stable, Hazardous polymerization will not occur. Will react with Epoxy Resins especially at elevated temperatures

STABLE

Epoxy Resins under uncontrolled conditions. Mineral acids. Organic acid, oxidizers, Reacts with metals until reacted with epoxy.

None known

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 8mg/kg

Dermal Toxicity LD50: 3,216mg/kg

Inhalation Toxicity LC50: 2,901mg/L

Component Toxicity

98-54-4 Paratertiarybutylphenol

1477-55-0 Oral LD50: 3,250 µL/kg (Rat) Dermal LD50: 2,318 mg/kg (Rabbit)
 Amine
 Oral LD50: 660 mg/kg (Rat) Dermal LD50: 2 g/kg (Rabbit) Inhalation LC50: 700 ppm (Rat)

84852-15-3 nonyl phenol
 Oral LD50: 1,300 mg/kg (Rat) Dermal LD50: 2,031 mg/kg (Rabbit)

Eyes: Irritant to the eyes. Corrosive to Eyes
 Skin: Irritant to the skin. Corrosive to Skin
 Inhalation: Irritant to respiratory tract. Prolonged or excessive inhalation may cause respiratory tract irritation.
 Sensitization: Skin sensitization in humans.

Eyes Kidneys Liver Skin Respiratory System

Effects of Overexposure

CAS Number Description % Weight Carcinogen Rating

SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product

Component Ecotoxicity

Paratertiarybutylphenol	96 Hr LC50 Pimephales promelas: 4.71 - 5.62 mg/L [flow-through]; 96 Hr LC50 Cyprinus carpio: 6.9 mg/L [static] 48 Hr EC50 Daphnia magna: 3.9 mg/L; 48 Hr EC50 Daphnia magna: 3.4 - 4.5 mg/L [Static] 72 Hr EC50 Desmodemus subspicatus: 11.2 mg/L
nonyl phenol	96 Hr LC50 Pimephales promelas: 0.135 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.1351 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 0.14 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 0.36 - 0.48 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.16 - 0.72 mg/L [static]; 72 Hr EC50 Desmodemus subspicatus: 1.3 mg/L

SECTION 13. DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN2735 Amines, Liquid, corrosive, n.o.s. (Benzene-1,3-Dimethanamine,1,5-Pentanediamine, 2-Mthyl).
 DOT Hazad Class 8
 DOT Packaging Class II

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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SECTION 15. REGULATORY INFORMATION

OSHA:29 CFR 1910.1200 Haxardous Chemical "Irritant", Sensitizer
 TSCA: Ingredients listed
 SARA III: Sec311 & 312 Immediate Health Haxard; Sec313 Chemicals above de minimus level: None
 CA PROP. 65 NOTICE WARNING:

CANADIAN REGULATORY INFORMATION

WHMIS; Hazard Classification: D2B Skin Sensitizer. Refer to SDS for specific warnings
 WHMIS Symbols: Stylized T.
 WHMIS Trade Secret Registry Numbers: None

Hazardous Products Act Information: This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14).

The following chemicals are classified under SARA 313 Toxic Release Inventory (TRI):

84852-15-3 nonyl phenol 1 to 5 %

Country

Regulation

All Components Listed

Toxic Substance Control Act (TSCA)

Yes

EU Risk Phrases

Safety Phrase

- None

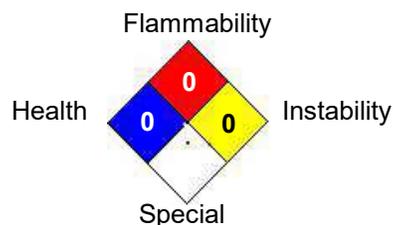
SECTION 16. ADDITIONAL INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="0"/>
FLAMMABILITY	<input type="text" value="0"/>
PHYSICAL HAZARD	<input type="text" value="0"/>
PERSONAL PROTECTION	<input type="text"/>

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
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National Fire Protection Association (NFPA)



Date revised: 2017-01-31

Reviewer Revision

Date Prepared: 1/31/2017

SECTION 1 . INDENTIFICATION

Product Name: FIBER BONDED EPOXY MASTIC PART A Product Code: PICOTE MASTIC
PICOTE SOLUTIONS
20810 SE 18TH PL
SAMMAMISH, WA 98075
PHONE 800-535-5053
EMERGENCY: INFOTRAC

SECTION 2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Carcinogen 2 Limited evidence of human or animal carcinogenicity

GHS Hazards

H351 Suspected of causing cancer

GHS Precautions

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P281 Use personal protective equipment as required
P308+P313 IF exposed or concerned: Get medical advice/attention
P405 Store locked up
P501 Dispose of contents/container to ...

Signal Word: Warning

Avoid breathing vapors



Oral: N.D.A.
Dermal: N.D.A.
Inhalation: N.D.A.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Epoxy Resin	25085-99-8	74.70%
Barium Sulfate	7727-43-7	10.00% - 20.00%
Silica	67762-90-7	1.00% - 5.00%
Titanium Dioxide	13463-67-7	1.00% - 5.00%

SECTION 4. FIRST AID MEASURES

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms

Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with soap and plenty of water.

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: N/A

LEL:

UEL:

Not applicable

Foam, Carbon dioxide (CO₂) or dry chemical or water spray (water stream may be ineffective).

No information available

Not available

Firefighters, and others exposed, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use appropriate containment and clean up immediately.

Corrosive. Avoid personal contact and breathing vapor or mist. Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

SECTION 7. HANDLING and STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatible materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools.

No information available.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Epoxy Resin 25085-99-8	Not Established	Not Established	Not Established
Barium Sulfate 7727-43-7	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	5 mg/m ³ TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Silica 67762-90-7	Not Established	Not Established	Not Established
Titanium Dioxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	Not Established

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactory and meets OSHA or other recognized standards. Consult with local procedures for selection, training, and maintenance of the personal protective equipment. Always use adequate ventilation that comply with local regulations.

Eye/face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166

Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifying respirator may not provide adequate protection.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

SECTION 15. REGULATORY INFORMATION

OSHA:29 CFR 1910.1200 Haxardous Chemical "Irritant", Sensitizer
TSCA: Ingredients listed
SARA III: Sec311 & 312 Immediate Health Haxard; Sec313 Chemicals above de minimus level: None
CA PROP. 65 NOTICE WARNING:

CANADIAN REGULATORY INFORMATION

WHMIS; Hazard Classification: D2B Skin Sensitizer. Refer to SDS for specific warnings
WHMIS Symbols: Stylized T.
WHMIS Trade Secret Registry Numbers: None
Hazardous Products Act Infrmation: This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14).

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

13463-67-7 Titanium Dioxide 1 to 5 % Carcinogen

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
	Toxic Substance Control Act (TSCA)	Yes
<u>EU Risk Phrases</u>		

Safety Phrase

- None

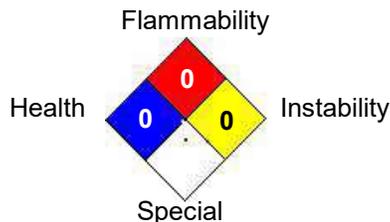
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