

SAFETY DATA SHEET



2400-A - 2 COMP.ALIPH.URETH. PART-A

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	2400-A - 2 COMP.ALIPH.URETH. PART-A
Product Code:	2400-A
Product Use:	Epoxy

Manufacturer
Richard's Paint
200 Paint Street
Rockledge, Florida,
800-432-0983

24 Hour Emergency Telephone Number
CHEMTEL (US): (800)255-3924
CHEMTEL (International): (813)248-0585

2. HAZARDS IDENTIFICATION

Classification:	This material is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Skin Corrosion/Irritation: Category 2 Specific Target Organ Toxicity (Single Exposure): Category 3 Aspiration Toxicity: Category 1 Skin Sensitization: Category 1 Reproductive Toxicity: Category 2 Specific Target Organ Toxicity (Repeated Exposure): Category 2 Flammable Liquid: Category 2
Signal Word:	Danger
Pictograms:	
Hazard Statements:	H225: Highly flammable liquid and vapor H304: May be fatal if swallowed and enters airways H315: Causes skin irritation H317: May cause an allergic skin reaction H336: May cause drowsiness or dizziness H361: Suspected of damaging fertility or the unborn child H373: May cause damage to organs through prolonged or repeated exposure

Prevention Precautionary Statements:	<p>P201: Obtain special instructions before use</p> <p>P202: Do not handle until all safety precautions have been read and understood</p> <p>P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.</p> <p>P233: Keep container tightly closed</p> <p>P240: Ground/bond container and receiving equipment</p> <p>P241: Use explosion-proof electrical/ventilating/lighting equipment</p> <p>P242: Use only non-sparking tools</p> <p>P243: Take precautionary measures against static discharge</p> <p>P260: Do not breathe dust/fumes/gas/mist/vapors/spray</p> <p>P264: Wash face, hands and any exposed skin thoroughly after handling</p> <p>P271: Use only outdoors or in a well-ventilated area</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P281: Use personal protective equipment as required</p>
Response Precautionary Statements:	<p>P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.</p> <p>P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician</p> <p>P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P308+313: IF exposed: Call a POISON CENTER or doctor/physician</p> <p>P332+313: If skin irritation occurs: Get medical advice/attention</p> <p>P370+378: In case of fire: Use CO2, dry chemical, or foam to extinguish</p> <p>P331: Do NOT induce vomiting</p>
Storage Precautionary Statements:	<p>P405: Store locked up</p> <p>P403+233: Store in a well ventilated place. Keep container tightly closed.</p> <p>P403+235: Store in a well ventilated place. Keep cool.</p>
Disposal Precautionary Statements:	P501: Dispose of contents/container to an approved waste disposal plant
Hazards Not Otherwise Classified:	None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Titanium dioxide	20% to 30%	13463-67-7
Propylene glycol monomethyl ether acetate	10% to 20%	108-65-6
Toluene	10% to 20%	108-88-3
Calcium carbonate	1% to 5%	1317-65-3
Propylene glycol monomethyl ether	1% to 5%	107-98-2
Ethyl 3-ethoxypropionate	1% to 5%	763-69-9
Xylenes (isomers and mixture)	1% to 5%	1330-20-7
Silicon dioxide	1% to 5%	7631-86-9
Alumina trihydrate	1% to 5%	21645-51-2
Ethylbenzene	0% to 1%	100-41-4
Aliphatic hydrocarbons	0% to 1%	64742-95-6

Zirconium dioxide	0% to 1%	1314-23-4
Alkyl quaternary ammonium bentonite	0% to 1%	68953-58-2
2-(2-hydroxy-3,5-di-tert-amylphenyl) benzotriazole	0% to 1%	25973-55-1
Cellulose acetate butyrate	0% to 1%	9004-36-8
Petroleum	0% to 1%	64742-82-1

4. FIRST AID MEASURES

General Advice:	Call a physician if symptoms persist. Show SDS to physician.
Eyes:	Remove contact lenses, if applicable. Flush eyes with water for at least 10 minutes. Keep eyes wide open while flushing. Consult a physician if symptoms persist.
Skin:	Remove contaminated clothing. Flush affected area with soap and water. Consult a physician if irritation persists. Wash contaminated clothing before re-use.
Ingestion:	Remove dentures if applicable and wash out mouth with water. Drink large amounts of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration and consult a physician immediately. Consult a physician if symptoms persist.
Most Important Symptoms/Effects:	None known
Notes to Physician:	Acute exposure to toluene can cause transient hematuria and albuminuria. Acute inhalation may cause cardiac arrhythmias.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Foam, dry powder, CO ₂ , water spray. Use measures suitable to the circumstances and environment.
Precautions for Firefighters:	Wear self-contained breathing apparatus and protective gear
Specific Hazards:	Carbon oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Remove all sources of ignition. Use proper personal protective equipment. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors.
Other Precautions:	If safe to do so, prevent additional spillage. Do not allow material to enter ground water, surface water, or sewer system. Consult local authorities if spillage cannot be contained.
Clean-Up Method:	Soak up with non-combustible absorbent material. Dispose of used absorbent in suitable containers.

7. HANDLING AND STORAGE

Handling Precautions:	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mists, or dust. Use only in areas with sufficient ventilation. Ground all metal equipment to prevent ignition of vapors by static discharge. Keep away from heat and ignition sources.
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Storage Precautions:	Keep container upright, properly labeled, tightly closed, and out of reach of children in a cool, dry, well-ventilated area. Keep away from heat and ignition sources.
Incompatible Materials:	Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Calcium carbonate(1317-65-3)		
NIOSH TWA:	5 mg/m3 (respirable fraction)	10 mg/m3 (total dust)
OSHA PEL:	5 mg/m3 (respirable fraction)	15 mg/m3 (total dust)
Ethylbenzene(100-41-4)		
ACGIH STEL:	125 ppm	--
ACGIH TWA:	20 ppm	--
NIOSH ST:	125 ppm	545 mg/m3
NIOSH TWA:	100 ppm	435 mg/m3
OSHA STEL:	125 ppm	545 mg/m3
OSHA TWA:	100 ppm	435 mg/m3
Petroleum(64742-82-1)		
OSHA TWA:	400 ppm	1600 mg/m3
Propylene glycol monomethyl ether acetate(108-65-6)		
WEEL TWA:	50 ppm	--
Propylene glycol monomethyl ether(107-98-2)		
ACGIH STEL:	100 ppm	--
ACGIH TWA:	50 ppm	--
NIOSH ST:	150 ppm	540 mg/m3
NIOSH TWA:	100 ppm	360 mg/m3
Silicon dioxide(7631-86-9)		
NIOSH TWA:	6 mg/m3	--
OSHA TWA:	20 mil particles/ft3	80 mg/m3/%SiO2
Titanium dioxide(13463-67-7)		
TWA:	ACGIH: 10 mg/m3	OSHA: 15 mg/m3
Toluene(108-88-3)		
ACGIH TWA:	20 ppm	--
NIOSH ST:	150 ppm	560 mg/m3
NIOSH TWA:	100 ppm	375 mg/m3
OSHA CEIL:	300 ppm	--
OSHA peak:	500 ppm	--
OSHA STEL:	150 ppm	560 mg/m3
OSHA TWA:	100 ppm	375 mg/m3
Xylenes (isomers and mixture)(1330-20-7)		
ACGIH STEL:	150 ppm	--
ACGIH TWA:	100 ppm	--
OSHA TWA:	100 ppm	435 mg/m3
Zirconium dioxide(1314-23-4)		
ACGIH:	TWA: 5 mg/m3	STEL: 10 mg/m3
NIOSH:	TWA: 5 mg/m3	STEL: 10 mg/m3
OSHA:	TWA: 5 mg/m3	--

Engineering Measures:	Maintain adequate ventilation to keep exposure to airborne contaminants at safe levels. Use explosion-proof equipment.
Hygiene Measures:	No eating, drinking, or smoking while in use. Avoid contact with skin, eyes, and clothing. Wash hands, forearms, and face after handling. Wash contaminated clothing before re-use.

Eye/Face Protection:	Safety glasses/goggles
Skin Protection:	Protective gloves and long-sleeved protective clothing
Respiratory Protection:	Respiratory equipment if ventilation is inadequate

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Determined by customer (white by default)
Odor:	Solvent
Odor Threshold:	No information available
pH:	No information available
Melting Point (°F):	No information available
Boiling Point (°F):	230.0 -232
Flash Point (°F):	39.20
Flash Point Method:	Closed cup
Evaporation Rate:	No information available
Flammability (Solid/Gas):	No information available
Flammability Limits:	No information available
Vapor Pressure (mm Hg):	No information available
Vapor Density:	No information available
Specific Gravity:	No information available
% Solubility in Water:	No information available
Octanol/Water Partition Coefficient:	No information available
Auto-Ignition Temperature (°F):	No information available
Decomposition Temperature (°F):	No information available
Viscosity (KU):	90-95

10. STABILITY AND REACTIVITY

Reactivity:	No information available
Possibility of Hazardous Reactions:	Vapors may form explosive mixture with air
Hazardous Decomposition Products:	Carbon oxides
Stability:	Stable under normal storage conditions
Incompatible Materials:	Strong oxidizing agents
Conditions to Avoid:	Heat, sparks, ignition sources

11. TOXICOLOGICAL INFORMATION

Aliphatic hydrocarbons(64742-95-6)	
Dermal LD50 (rabbit):	>2000 mg/kg
Inhalation LC50 (rat, 4 hrs):	10-20 ppm
Oral LD50 (rat):	>2000 mg/kg
Alkyl quaternary ammonium bentonite(68953-58-2)	
ACGIH TWA (respirable dust):	0.025 mg/m3
OSHA PEL (respirable dust):	10 mg/m3 (%SiO2+2)
OSHA PEL (total dust):	30 mg/m3 (%SiO2+2)
Alumina trihydrate(21645-51-2)	
Oral LD50 (rat):	>2000 mg/kg
Ethyl 3-ethoxypropionate(763-69-9)	
Dermal LD50 (rabbit):	4080 mg/kg
Inhalation LC50 (rat, 6 hrs):	>998 ppm
Oral LD50 (rat):	4309 mg/kg
Ethylbenzene(100-41-4)	
Dermal LD50 (rabbit):	15433 mg/kg
Oral LD50 (rat):	3500 mg/kg
Petroleum(64742-82-1)	
Dermal LD50 (rabbit):	>2000 mg/kg
Inhalation LC50 (rat, 4 hrs):	>7630 mg/m3
Oral LD50 (rat):	>5000 mg/kg
Propylene glycol monomethyl ether acetate(108-65-6)	
Dermal LD50 (rat):	>2000 mg/kg
Oral LD50 (rat):	8532 mg/kg
Propylene glycol monomethyl ether(107-98-2)	
Dermal LD50 (rabbit):	13000 mg/kg
Inhalation LC50 (rat, 5 hrs):	10000 ppm
Oral LD50 (mouse):	11700 mg/kg
Silicon dioxide(7631-86-9)	
Oral LD50 (rat):	3160 mg/kg
Titanium dioxide(13463-67-7)	
Dermal LD50 (rabbit):	>10000 mg/kg
Oral LD50 (rat):	>10000 mg/kg
Toluene(108-88-3)	
Dermal LD50 (rabbit):	12196 mg/kg
Inhalation LC50 (rat, 4 hrs):	12500-28800 mg/m3
Oral LD50 (rat):	>5580 mg/kg

Primary Routes of Exposure:	Eye contact, skin contact, inhalation
Acute Toxicity:	No information available

Exposure Effects	
Eye Contact:	Irritation
Skin Contact:	Irritation, dermatitis
Inhalation:	Irritation of respiratory system, headaches, dizziness, drowsiness, unconsciousness
Ingestion:	No information available
Target Organ (Single Exposure):	No information available
Target Organ (Repeated Exposure):	No information available
Sensitization:	No information available

Carcinogenicity:	No information available
Mutagenicity:	No information available
Reproductive Toxicity:	Fetotoxic if purposefully inhaled ("solvent sniffing")
Other:	No information available

12. ECOLOGICAL INFORMATION

2-(2-hydroxy-3,5-di-tert-amylphenyl) benzotriazole(25973-55-1)	
BCF (carp, 60 days)	1000-1700
LC50 (zebrafish, 96 hrs):	>100 mg/l
Alumina trihydrate(21645-51-2)	
Semi-static NOEC (salmo trutta, 96 hrs):	>0.07 mg/L
Static NOEC (algae, 72 hrs):	>0.004 mg/L
Static NOEC (water flea, 48 hrs):	>0.005 mg/L
Ethyl 3-ethoxypropionate(763-69-9)	
Growth inhibition EC50 (green algae, 72 hrs):	114.86 mg/L
Growth inhibition IC50 (bacteria, 16 hrs):	>5000 mg/L
Immobilization EC50 (water flea, 48 hrs):	479.7 mg/L
Static LC50 (fathead minnow, 96 hrs):	45.3 mg/L
Ethylbenzene(100-41-4)	
Biodegradability (aerobic, 28 days):	70-80%
Flow-through LC50 (Atlantic silverside, 96 hrs):	5.1 mg/L
Static EC50 (Skeletonema costatum, 72 hrs):	4.9 mg/L
Static EC50 (water flea, 48 hrs):	1.8-2.4 mg/L
Petroleum(64742-82-1)	
Biodegradability (aerobic, 28 days):	77.05%
LC50 (fish, 96 hrs):	<100 mg/L
Propylene glycol monomethyl ether acetate(108-65-6)	
Biodegradability (aerobic, 28 days):	83%
BOD:	0.36 mg/L
COD:	1.74 mg/g
Mortality LC50 (Salmo gairdneri, 96 hrs):	100-180 mg/L
Static EC50 (water flea, 48 hrs):	>500 mg/L
Titanium dioxide(13463-67-7)	
EC50 (water flea, 48 hrs):	>1000 mg/L
LC50 (fish, 96 hrs):	>1000 mg/L
Toluene(108-88-3)	
BCF (golden orfe, 3 days, 0.05 mg/L):	90
EC50 (freshwater algae, 24 hrs):	245 mg/L
EC50 (green algae, 24 hrs):	10 mg/L
EC50 (water flea, 24 hrs):	8 mg/L
Immobilization EC50 (water flea, 48 hrs):	6 mg/L
LC50 (rainbow trout, 96 hrs):	7.63 mg/L
NOEC (fathead minnow, 7 days):	5.44 mg/L
Zirconium dioxide(1314-23-4)	
LC50 (zebrafish, 96 hrs):	>100 mg/L
Static EC50 (water flea, 48 hrs):	>100 mg/L

Ecotoxicological Effects:	The environmental impact of this substance has not been fully evaluated
Persistence/Degradability:	No information available
Bioaccumulative Potential:	No information available

Environmental Mobility:	No information available
Other Effects:	No information available

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Empty containers may contain flammable residue and vapors. Dispose of in accordance with federal, state, provincial, and local regulations.
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14. TRANSPORT INFORMATION

DOT	
Shipping Name:	Paint
Hazard Class:	3
UN No:	1263
Packing Group:	II

ICAO/IATA	
Shipping Name:	Paint
Hazard Class:	3
UN No:	1263
Packing Group:	II

IMDG/IMO	
Shipping Name:	Paint
Hazard Class:	3
UN No:	1263
Packing Group:	II

15. REGULATORY INFORMATION

TSCA (US):	All components are listed or exempt
DSL/NDSL (Canada):	All components are listed or exempt

311/312 Hazard Categories	
Fire:	Yes
Pressure Generating:	No
Reactivity:	No
Acute:	Yes
Chronic:	Yes

CERCLA Section 302	
Reportable Quantities:	Ethylbenzene, 1000 lbs Xylenes (isomers and mixture), 100 lbs Toluene, 1000 lbs

SARA 313			
Chemical Name	CAS Number	Max Weight %	de minimis limit
Toluene	108-88-3	20	1.0
Xylenes (isomers and mixture)	1330-20-7	5	1.0

Ethylbenzene	100-41-4	1	0.1
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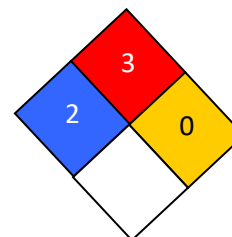
State Right-to-Know					
Chemical Name	CAS Number	MA	NJ	PA	RI
Titanium dioxide	13463-67-7	X	X	X	X
Propylene glycol monomethyl ether acetate	108-65-6		X	X	
Toluene	108-88-3	X	X	X	X
Calcium carbonate	1317-65-3	X	X	X	X
Propylene glycol monomethyl ether	107-98-2	X	X	X	X
Ethyl 3-ethoxypropionate	763-69-9		X	X	
Xylenes (isomers and mixture)	1330-20-7	X	X	X	X
Silicon dioxide	7631-86-9	X	X	X	
Alumina trihydrate	21645-51-2		X	X	
Ethylbenzene	100-41-4	X	X	X	X
Aliphatic hydrocarbons	64742-95-6		X	X	
Zirconium dioxide	1314-23-4	X	X	X	
2-(2-hydroxy-3,5-di-tert-amylphenyl) benzotriazole	25973-55-1		X	X	
Cellulose acetate butyrate	9004-36-8		X	X	
Petroleum	64742-82-1		X	X	

California Proposition 65:	This product contains small amounts of materials known to the state of California to cause cancer or reproductive harm
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16. OTHER INFORMATION

HMIS RATING	
Health:	2*
Flammability:	3
Reactivity:	0
Personal Protection:	--

NFPA CODES



PPE rating has been left intentionally blank. Choose appropriate PPE based upon actual conditions of use.

Revision Indicator:	Revised 4/7/2017
Disclaimer:	The information contained in this Safety Data Sheet (SDS) is provided in good faith and is believed to be accurate as of the effective date listed. The information applies only to the product as provided and may not be valid if combined with other materials. No warranty is implied or given. The user is responsible for complying with all applicable laws and regulations.