Victory Polymers

VPC-50 OC High Yield

Open-Cell | Polyol Component B

B RESIN

Safety Data Sheet

Section 1: Product and Company Identification

Product Name	VPC-50 OC High Yield
Chemical Name	Polyurethane Resin/B-side
Product Type	Liquid
Product Use	Component B of a Spray-Applied Polyurethane System

1.2 Name, Address, and Telephone of the Responsible Party

Company	Victory Polymers Corp. 1700 Post Oak Boulevard 2 BLVD Place, Suite 600 Houston, TX 77056 | U.S.A.
Telephone Number	1-832-240-7222 / International: 001-832-240-7222
Email	info@VictoryPolymers.com
Website	www.VictoryPolymers.com

1.3 Emergency Telephone Number

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night	1-800-424-9300
Outside USA and Canada (collect calls accepted)	+1-703-527-3887 CCN838152

Section 2: Hazards Identification

2.1 GHS Ratings

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Skin Corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 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
Aquatic toxicity	C3	Acute toxicity > 10.0 but <= 100.0 mg/l and lack of rapid degradability and log Kow >= 4 unless BCF < 500 and unless chronic toxicity > 1 mg/l

2.2 GHS Hazards

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H412	Harmful to aquatic life with long lasting effects

2.3 GHS Precautions

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER in case of overexposure.
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment is urgent (see Section 4 First Aid measures)
P330	Rinse mouth
P362	Take off contaminated clothing and wash 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
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
P332+P313	If skin irritation occurs: Get medical advice/attention
P501	Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.

2.4 GHS Label Elements Including Precautionary Statements

Hazard Pictograms

Signal Word	Danger
Acute Toxicity	
Eyes	Corrosive to eyes.
Skin	Irritating to skin.
Inhalation	Not expected to be a route of exposure.
Ingestion	Harmful if swallowed. Consult physician.
Chronic Effects	Possible harmful target organ effects.

Section 3: Composition/Data on Components

Chemical Name	CAS number	Weight Concentration %
2-Propanol, 1-chloro-, phosphate (3:1)	13674-84-5	20.00% - 30.00%
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	10.00% - 20.00%
Tertiary amine	N/A	1.00% - 5.00%
Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]-	2212-32-0	1.00% - 5.00%
Bis(2-dimethylaminoethyl) ether	3033-62-3	0.10% - 1.00%
1,4-Dioxane	123-91-1	0.00% - 0.10%

Section 4: First-Aid Measures

Inhalation	If inhaled and symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.
After Eye Contact	Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing. If irritation persists contact physician.
After Skin Contact	Clean affected area with soap and plenty of water.
After Swallowing	Consult physician.
Notes to Physician	Treat symptomatically.

Section 5: Firefighting Measures

Flash Point	200° C (392° F)
LEL	N/A
UEL	N/A
Upper and Lower Explosive Limits listed if known	
Suitable Extinguishing Agents	Water spray, CO2, Foam, Dry chemical.
Information about Protection against Explosions and Fires	Keep away from flames and sources of heat. Closed containers may rupture when exposed to extreme heat.
Dangerous Products of Decomposition	Oxides of carbon, oxides of nitrogen, oxides of phosphorus, hydrocarbons, traces of HCN, hydrogen chloride gas.
Protective Equipment	Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Person-Related Safety Precautions	Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area. Avoid contact with skin and eyes.
Measures for Environmental Protection	Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.
Small Spills	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e g. cloth, fleece) clean surface thoroughly to remove residual contamination.
Large Spills	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Section 7: Handling and Storage

Information for Safe Handling	Avoid contact with eyes, skin, or inhalation.
Storage Requirements	Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F. Material may settle.
Regulatory Requirements	Obey all local, state, and federal requirements.

Section 8: Exposure Controls and Personal Protection

8.1 Occupational Exposure Limits

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	Not Established	Not Established	Not Established
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched 127087-87-0	Not Established	Not Established	Not Established
Tertiary amine N/A	Not Established	Not Established	Not Established
Ethanol, 2-[[2-(dimethylamino)ethyl] methylamino]- 2212-32-0	Not Established	Not Established	Not Established
Bis(2-dimethylaminoethyl) ether 3033-62-3	Not Established	0.15 ppm STEL 0.05 ppm TWA	Not Established
1,4-Dioxane 123-91-1	100 ppm TWA	20 ppm TWA	Not Established

Engineering Controls	No specific measures required if proper PPE precautions are followed.

8.2 Individual Protection Measures

General Protective and Hygienic Measures	Usual precautionary measures should be adhered to when handling chemicals.
Respiratory Protection	In spray applications, an organic vapor/particulate respirator or air supplied unit is necessary.
Protection of Hands	Protective chemical resistant gloves.
Eye Protection	Chemical resistant goggles must be worn.
Body Protection	Protective work clothing. Launder separately.
Contaminated Gear	Observe local requirements. Dispose of in accordance with local/state/federal regulations.

Section 9: Physical and Chemical Properties

Physical properties listed where known

Appearance	Amber liquid	**Odor**	Amine odor
Vapor Pressure	N/A	**Odor Threshold**	N/A
Vapor Density	N/A	**pH**	N/A
Specific Gravity	1.14	**Melting Point**	N/A
Freezing Point	N/A	**Solubility**	N/A
Boiling Range	100 – 342°C	**Flash Point**	392°F (200°C)
Evaporation Rate	N/A	**Flammability**	N/A
Explosive Limits	N/A	**Partition Coefficient (n-octanol/water)**	N/A
Autoignition Temperature	N/A	**Decomposition Temperature**	N/A

Section 10: Stability and Reactivity

Chemical Incompatible Materials	Avoid contact with isocyanates and strong oxidizing agents.
Hazardous Polymerization	Not expected to occur.
Dangerous Products of Decomposition	Oxides of carbon, oxides of nitrogen, oxides of phosphorus, hydrocarbons, traces of HCN, hydrogen chloride gas.

Section 11: Toxicological Information

11.1 Mixture Toxicity

Oral Toxicity LD50	1,653mg/kg
Dermal Toxicity LD50	2,547mg/kg
Inhalation Toxicity LC50	16mg/L

11.2 Component Toxicity

Product	Description	Oral LD50	Dermal LD50	Inhalation LC50
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)	500 mg/kg (Rat)	1,230 mg/kg (Rabbit)	5 mg/L (Rat)
127087-87-0	Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	1,310 mg/kg (Rat)	2,000 mg/kg (Rabbit)	
Tertiary amine	Tertiary amine	1,290 mg/kg (Rat)	370 mg/kg (Rabbit)	3 mg/L (Rat)
2212-32-0	Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]-	2,000 mg/kg (Rat)	2,000 mg/kg (Rabbit)	20 mg/L (Rat)
3033-62-3	Bis(2-dimethylaminoethyl) ether	910 mg/kg (Rat)	238 mg/kg (Rabbit)	117 ppm (Rat)
123-91-1	1,4-Dioxane	4,200 mg/kg (Rat)		49 mg/L (Rat)

11.3 Individual Toxicity Values Listed if Known

Acute Toxicity

Eyes	Corrosive to eyes.	**Chronic Effects**	Possible harmful target organ effects.
Skin	Irritating to skin.	**Routes of Entry**	Ingestion, skin contact, eye contact.
Inhalation	Not expected to be a route of exposure.	**Target Organs**	Skin, eyes, reproductive system, kidneys
Ingestion	Harmful if swallowed. Consult physician.		

Chemicals with Known or Possible Carcinogenic Effects

CAS Number	Description	% Weight	Carcinogen Rating
123-91-1	1,4-Dioxane	0.0 to 0.1%	1,4-Dioxane: IARC group 2B - Possibly carcinogenic to humans

Section 12: Ecological Information

12.1 General Information

Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13.

Individual component ecotoxicity listed if known.

12.2 Component Ecotoxicity

Product/Ingredient Name	Result			
2-Propanol, 1-chloro-, phosphate (3:1)	96 Hr LC50 Brachydanio rerio:	56.2 mg/L [static]	48 Hr EC50 Daphnia magna:	63 mg/L
	96 Hr LC50 Pimephales promelas:	98 mg/L [static]	72 Hr EC50 Desmodesmus subspicatus:	45 mg/L
	96 Hr LC50 Poecilia reticulata:	30 mg/L [static]	96 Hr EC50 Pseudokirchneriella subcapitata:	4 mg/L
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	48 Hr LC50 Pimephales pormelas (fathead minnow):	3.8 - 6.2 mg/L		
	48 Hr EC50 Daphnia magna:	9.3 - 21.4 mg/L		
	16 Hr IC50 Bacteria:	>1,000 mg/L		
Tertiary amine	72 Hr ErC50 Selenastrum capricornutum:	7.9 mg/L		
	72 Hr NOEC Selenastrum capricornutum:	1.2 mg/L		

Section 13: Disposal Considerations

Recommendation	Observe local requirements. Dispose of in accordance with local/state/federal regulations.
Empty Container Precautions	Recondition or dispose of empty container in accordance with governmental regulations. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal.

Section 14: Transport Information

14.1 DOT Regulated Components

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods unless specifically cited below:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
	None			

Section 15: Regulatory Information

15.1 OSHA Hazard Communication Standard

This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

15.2 SARA 311/312 Hazard Categories

Acute health hazard, chronic health hazard

15.3 WARNING

This product can expose you to chemicals listed below, which are known to the State of California to cause cancer, birth defects, or reproductive harm.
For more information, visit www.P65Warnings.ca.gov

Chemical	CAS#		
Ethylene Oxide	75-21-8	1 PPM	CARC
1,4-Dioxane	123-91-1	4 PPM	CARC

15.4 State Regulations

Massachusetts Right To Know List	None
New Jersey Right To Know List	None
Pennsylvania Right To Know List	None

15.5 SARA 302 Extremely Hazardous Substances

None

15.6 Chemicals subject to SARA 313 Reporting

None

Country	Regulation	All Components Listed
Canada	Canada DSL	Yes
US	Toxic Substances Control Act	Yes

Section 16: Other Information

Safety Data Sheet issued by Product Safety Department	This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Victory Polymers Corp. The data on these sheets relates only to the specific material designated herein. Victory Polymers Corp. assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws.
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