



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Vanquish Floor Finish Remover		
Supplier	VersaClean 2604 Liberator Prescott, AZ 86301 US Phone: 800 932-3030 Emergency: 800 535-5053		

2. Hazards Identification

Route of Entry:	Eye, skin contact, ingestion.
Potential Health Effects:	
Eye Contact:	Hazardous in case of eye contact, corrosive!
Skin Contact:	Hazardous in case of skin contact, corrosive!
Inhalation:	May cause nose, throat and respiratory tract irritation, lung sensitizer
Ingestion:	May cause irritation to mouth, esophagus and stomach. May cause gastric tract disorder and/or damage.
Chronic Effects	
Carcinogenicity:	No ingredients listed or NTP or ACGIC. Non hazardous by WHIMIS/OSHA criteria. Benzyl Alcohol may be toxic to liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.
Teratogenicity, Mutagenicity, Reproductive Effects:	The ingredients in this product were found to be mutagenic when tested by the Ames Assay, expect for below (OECD Guidelines for chemical testing, sec.471) only on bacterial and yeast. Benzyl alcohol in some studies has been found to be mutagenic for bacteria and/or yeast.
Skin:	Repeated or prolonged exposures to dilutions can cause drying, defatting and dermatitis.

3. Composition / Information on Ingredients

Benzyl Alcohol	100-51-6	35-60 %	Not applicable	Not Applicable	1280 mg/kg (Oral/Rat)
Monoethanolamine	141-43-5	15-35 %	3 ppm	6 ppm	1720 mg/kg (Oral/Rat)
Diethylene glycol monoethyl ether	111-77-3	15-35 %	Not applicable	Not applicable	>2000 mg/kg (Oral/Rat)
Alcohol Ethoxylate	68439-46-3	1-5 %	Not applicable	Not applicable	2000 mg/kg (Oral/Rat)

4. First Aid Measures

Eye Contact:	Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.
Skin Contact :	Flush with water. Seek medical attention if irritation persists. Remove contaminated clothing and launder before reuse.
Inhalation:	Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.

5. Fire Fighting Measures

Flammability:	Non flammable.
Flash Point	Not Applicable
Means of Extinction:	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam
Special Fire Hazards:	Fire fighters should wear self contained breathing apparatus as for surrounding fire.
Autoignition temperature:	Not applicable.
Flame propagation or burning rate of solid:	Not applicable.
Sensitivity to static discharge:	Not applicable
Unusual Fire and Explosion Hazards.	None expected. As per surrounding fire.
Hazardous decomposition products:	Oxides of carbon, oxides of nitrogen.

6. Accidental Release Measures

Leak and Spill Procedures:	Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.
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7. Handling and Storage

Storage Requirements:	KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include acids, oxidizing materials, reducing sugars and Ammonia Salts. Storage temperature C Ambient to 30C (must be stored above 0 C at all times) Transport temperature C Ambient to 30 C (must be stored above 0 C at all times.) Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials. Do not store near open flame. Do not reuse empty containers.
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8. Exposure Controls/ Personal Protection

Gloves:	Wear impervious gloves
Eye Protection:	Splash goggles.
Respiratory Protection:	Not normally required if good ventilation is maintained
Other Protective Equipment:	As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls:	General ventilation normally required

9. Physical and Chemical Properties

Boiling Point (deg C)	Not established	Specific Gravity (H₂O = 1):	Not established	Evaporation Rate (water=1):	Note established
% Volatile (Wt %):	> 80 %	Solubility in water:	Not established Emulsifiable in water	pH (as supplied):	11 to 12
Physical State:	Liquid	Viscosity:	Slightly viscous		
Appearance / Odor:	Liquid with typical odor.				

10. Stability and Reactivity

Conditions for Chemical Instability:	Normally stable.
Incompatible Materials:	Strong oxidizing agents, strong acids, ammonia, reducing agents
Hazardous Decomposition Products:	Oxides of hydrogen, carbon and nitrogen.

11. Toxicological Information: See Section 2 for LD 50 for individual components.

12. Ecological Information:

Biodegradability:	Based on evaluation of raw materials upon dilution this formulation would be predicted to be either ultimately or readily biodegradable
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Aquatic Toxicity:

- Diethylene Glycol Monomethyl ether** Acute toxicity to fish LC50 / 96 hr silverside minnow. 2,000 mg/l LC50 / 96 hr bluegill. 1,300 mg/l.
- Monoethanolamine** LC50 (Fish, 96hr) 227 & 2070mg/l (pimephales promelas) ; 3684mg/l (brachydanio rerio), 170mg/l (carassius auratus), 337mg/litre (gambusia affinis), 329mg/litre (lepomis macrochirus), 150mg/litre (oncorhynchus mykiss) EC50 (Crustacea, 48hr) 65 & 120mg/l (daphnia magna) EC50 (Algae) 15mg/l (scenedesmus quadricauda)
- Benzyl Alcohol** Ecotoxicity (LC50): 770 mg/l 48 hours Fish (Pimephales promelas (Fathead minnow)). 480 mg/l 72 hours Fish (Pimephales promelas (Fathead minnow). 460 mg/l 96 hours [Fish (Pimephales promelas (Fathead minnow). 10 ppm 96 hours Fish (Lepomis macrochirus (Bluegill sunfish)). 15 ppm 96 hours Fish (Menidia beryllina (tidewater silverside fish)

13. Disposal Considerations

Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.

14. Transport Information

T.D.G. Classification:	Class 8 Corrosive liquid N.O.S. (contains Monoethanolamine) 1760 UN: PG III Limited Quantity for container s of 5 liters or less.
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15. Regulatory Information.

Occupational Health and Safety Regulations:	
WHMIS Class:	E Corrosive material. D2B toxic
OSHA & WHMIS:	MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations

State regulations California Proposition 65

WARNING: This product may contain a chemical known to the State of California to cause cancer and birth defects or other reproductive harm: ethylene oxide (75-21-8).

WARNING: This product contains a chemical known to the State of California to cause cancer.

16. Other Information

Disclaimer: Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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