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 Supersedes Date: January 2, 1998

MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION				
Product Name	VML-3000 Cleanser			
Product Code (Catalog Number)	VML-3000-CP			
Product Category (Chemical Name)	A mixture			
Product Appearance and Odor	Blue-green liquid with a slight odor of ammonia			
Emergency Notification	Chem-Tel 1-800-255-3924			
COMPONENTS AND HAZARD INFORMATION				
Component	CAS No.	%	OSHA TWA ppm mg/m ³	OSHA STEL ppm mg/m ³
Water	7732-18-5	TS	NE NE	NE NE
Glycine, N,N ¹ -1,2-ethanediyilbis-N-(carboxymethyl)-, tetra sodium salt	64-02-8	TS	NE NE	NE NE
Benzenesulfonic acid, dimethylammonium salt	26447-10-9	TS	NE NE	NE NE
Benzenesulfonic acid, dodecylpd with 2,2 ¹ ,2 ² -nitrilotris-(ethanol)	27323-41-7	TS	NE NE	NE NE
Poly (oxy-1,2-ethanediyl) alpha-(undecyl)-omega-hydroxy	34398-01-1	TS	NE NE	NE NE
PHYSICAL DATA				
THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.				
Boiling Range 212°F (100°C)	Specific Gravity 1.134	Molecular Weight		Viscosity
Percent Volatile by Volume	Vapor Pressure @20 C degrees	Vapor Density (Air = 1) same as water		Pour, Congealing or Melting Point
Solubility in Water @1 ATM and 25°C (77°F) miscible		Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate =1) same as water		pH 9.5
FIRE AND EXPLOSION HAZARD INFORMATION				
Flash Point (Minimum) NA	Autoignition Temperature NA		Test Mode	LEL UEL

NA = not applicable NL = not listed NE = not established NNR = not normally required

National Fire Protection Association (NFPA) — Hazard Identification			
Health	Flammability	Reactivity	Basis
Handling Precautions			
Flammable or Explosive Limits (Approximate Percent by Volume in Air)			
Extinguishing Media This is an aqueous product and as such is not flammable. For fires involving dried material, use water, carbon dioxide, dry chemicals or foam.			
Fire Fighting Procedures Firefighters subject to decomposition products of dried material should wear self-contained breathing apparatus. Cool containers exposed to flames with water. Fire water run-off should be diverted from adjacent waterways.			
Decomposition Products Under Fire Condition			
“Empty” Container Warning			
Unusual Fire and Explosion Hazards NA			
HEALTH AND HAZARD INFORMATION			
Variability Among Individuals			
Signs and symptoms of overexposure			
Effects of Overexposure			
Nature of Hazard and Toxicity Information Eye irritant per OECD Guideline No. 405 Skin irritant per OECD Guideline No. 405 LD50 is greater than 5g/kg (rats)			
Pre-existing Medical Conditions which may be Aggravated by Exposure NE			
Threshold Limit Value			
Health Hazards Inhalation: Prolonged exposure may cause slight nose and throat irritation. Skin: Prolonged skin contact may cause drying/chapping. Ingestion: Very large amount ingested could cause cramps and muscle spasms. Eyes: Considered to be an eye irritant, however, in tests, the cornea was not affected.			
PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES			
Eye Contact Immediately flush with large amounts of water for at least 15 minutes while holding the eyelids			

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open. Do not attempt to neutralize with chemical agents. Contact physician immediately.

Skin

Wash affected areas thoroughly with soap and water. Wash contaminated clothing. Reuse. Contact physician if irritation develops.

Inhalation

Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Get medical attention

Ingestion

If patient is conscious, give several glasses of water for dilution effect and contact physician. Do not induce vomiting. Do not give unconscious person anything by mouth.

SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.

Special Hazards Comments

All data presented here is for full strength VML-3000 Cleanser, however, recommended usage is less than 1% solution.

REACTIVITY

Stability

NA

Incompatibility

May etch aluminum and zinc.

Hazardous Decomposition Products

NE

Conditions to Avoid

NA

Hazardous Polymerization

Will not occur

Materials to Avoid

ENVIRONMENTAL INFORMATION

Steps to be Taken in Case Material is Released or Spilled

Contain spilled liquid with sand, earth or other spilled devices that are available. Clean up spill immediately observing precautions in the personal protection section of the MSDS. This product is a non-hazardous waste when spilled material is disposed of as defined in Resource Conservation and Recovery Act (RCRA) regulations (40CFR261). Waste must be disposed of in accordance with federal, state and local environment control regulations.

Waste Disposal Method**Disposal****Protective Gear**

Firefighters subject to decomposition products of dried material should wear self-contained breathing apparatus. Cool containers exposed to flames with water. Fire water run-off should be diverted from adjacent waterways.

Precautions to be taken in handling and storage

Storage information should be between 41°F (5°C to 43°C)

Shelf life is 1 year in original sealed container at 68°F (20°C)

Do not store containers in direct sunlight. Store in cool, dry, well ventilated area. Keep containers closed. Use only stainless steel, polyethylene or plastic lined containers for storage. Do not store in contact with aluminum, zinc, copper or their alloys.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.

Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)

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Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)					
Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)					
Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)					
Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard	Not Applicable
SPECIAL STATE NOTIFICATIONS					
PROTECTION AND PRECAUTIONS					
Ventilation General industrial ventilation.					
Respiratory Protection NNR					
Protective Gloves Chemical resistant gloves.					
Eye Protection Goggles or protective glasses. Do not wear contact lenses.					
Other Protective Equipment					
TRANSPORTATION AND OSHA RELATED LABEL INFORMATION					
Transportation Incident Information					
U.S. DOT Hazardous Materials Shipping Description Liquid detergent.					
OSHA Required Label Information Packing Group (49CFR 172.101: Class 55-Liquid Detergent.					

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