

Varn International, Inc., a Flint Group Company

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For Product Questions call: (800) 336-VARN(8276)
For Health and Safety Questions call: (800) 336-VARN(8276)
After Hours Emergency Health/Safety Questions: (800) 391-0698 Prosar (US/Canada)
24 Hour Emergency Spill Contact call: (800) 424-9300 Chemtrec (US/Canada)

Material Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: VERSI
Product Code: 650-B013111
MSDS Code: MSD-00940024
Revision Number: 1
Revision Date: 2011-03-03 16:32:38

II. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
111-90-0	Diethylene glycol monoethyl ether	10 - 30
57-55-6	1,2-Propanediol	5 - 10

Please see Section VIII for product and component exposure guidelines.

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

III. HAZARDS IDENTIFICATION

HMIS Rating Health: 1 Flammability: 0 Reactivity: 0
HMIS Flammability based upon firepoint exemption.

This product falls under the following WHMIS class:

This product is not controlled. Ce produit n'est pas contrôlé.

Routes of Entry: Inhalation, Ingestion, Skin contact, Eye contact

Medical Conditions No medical conditions affected by exposure.

Aggravated:

Immediate (Acute) Health Effects by Route of Exposure

Inhalation: Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

Skin Contact: Can cause minor skin irritation, defatting, and dermatitis. Harmful if absorbed through the skin.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Ingestion: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Long-Term (Chronic) Health Effects

Reproductive and Developmental: No data available to indicate product or any components present at greater than 0.1% may cause birth defects. No information available.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

VERSI

Inhalation: Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. Upon prolonged or repeated exposure, minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

Ingredients of this product appear on the following OSHA identified carcinogen lists at >= 0.1% by weight (yes/no):

OSHA	No	NTP	No	IARC 1 & 2A	No	NIOSH	No
				IARC 2B	No		

IV. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.

V. FIRE FIGHTING MEASURES

Flammability Summary: Not combustible

Extinguishing Media: Not combustible. Use extinguishing media appropriate for surrounding fire.

Fire and/or Explosion Hazards: Material will not ignite or burn.

Fire Fighting Methods and Protection: Difficult to ignite, no special instructions available. Use methods appropriate for surrounding materials.

Hazardous Combustion Products: Carbon dioxide
Carbon monoxide

Flash Point: No data. Material is water-based and will not flash.

Firepoint: Firepoint calculated >212F (100C)

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

VII. HANDLING AND STORAGE

Product Use: Lithographic Fountain Concentrate

Handling Precautions: Mildly irritating material. Avoid unnecessary exposure. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Heating this product may release harmful vapors. Use with adequate ventilation

Storage Conditions: Store this product in air-tight containers. Keep away from heat, sparks, and flame. Store in a tightly closed container.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:	Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.
Respiratory Protection:	General or local exhaust ventilation is the preferred means of control. If general or local exhaust ventilation is not available or sufficient to control or eliminate symptoms as described in Section III, respiratory protection should be used.
Eye Protection:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
Skin Protection:	Wear protective gloves. Inspect gloves at regular intervals and replace as necessary. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves:	Wear impervious material. Butyl rubber or Nitrile

Exposure Guidelines:

CAS#	Chemical Name	OSHA Exposure Limits	ACGIH TLV - TWA	ACGIH STEL	IDLH
111-90-0	Diethylene glycol monoethyl ether		No TLV	No STEL	Not on list
57-55-6	1,2-Propanediol		No TLV	No STEL	Not on list

If this product is provided in a dry powder state it should be considered a nuisance dust (PEL 10 mg/m³).

If the processing of this product produces a mist it should be considered to be an oil mist with a PEL of 5 mg/m³.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Green
Odor:	Mild
Solubility in Water:	Complete; 100%
Vapor Pressure (mmHg @ 20 deg. C):	0.14
Volatile Organic Chemicals % by wt:	27.32
VOC lb/gal	2.37
Specific Gravity:	1.04
Bulk Density (lbs/Gal):	8.66
Bulk Density (kg/L):	1.04

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid/Chemical Incompatibility:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

CAS#	Chemical Name	LD50/LC50
111-90-0	Diethylene glycol monoethyl ether	ORAL, RAT: LD50 = 5500 MG/KG; ORAL, MOUSE: LD50 = 6600 MG/KG; SKIN, RABBIT: LD50 = 8500 UL/KG
57-55-6	1,2-Propanediol	Oral LD50 Rat 20000 mg/kg; Dermal LD50 Rabbit 20800 mg/kg

XII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	Spent or discarded material is not expected to be a hazardous waste.
Disposal Methods:	Dispose in accordance with Federal, State, Provincial and Local regulations. Material may be compatible with industrial waste incineration or inclusion in a fuel blending program. This characterization is subject to approval by your waste management contractor. This material should be recycled if possible.

XIII. REGULATORY INFORMATION

TSCA Status	All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
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Chemical Name	CAS #	Regulation	Percentage
Not on list		CERCLA	
Not on list		NPRI (Cdn)	
Not on list		PROP 65	
2-(2-Ethoxyethoxy)ethanol (Glycol Ether)	111-90-0	SARA 313	18.45
Not on list		SARA EHS	

The following items require export notification for TSCA

Chemical Name	TSCA 12b list section
Not on list	

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains information required by the Controlled Products Regulations.

XIV. TRANSPORTATION INFORMATION

49CFR/TDG - Bulk:	NOT REGULATED
IATA - Bulk:	NOT REGULATED
IMDG - Bulk:	NOT REGULATED

XV. ADDITIONAL INFORMATION

References:

Disclaimer: Varn International, Inc. a Flint Group Company has prepared this Material Safety Data Sheet ("MSDS") in compliance with 29 CFR 1910.1200, understands that its customers may use this MSDS to comply with that section, and believes that the data set forth herein are accurate as of the date hereof; however, this MSDS shall not constitute a warranty with respect thereto.