

Varn International, Inc., a Flint Group Company

14909 N. Beck Road
Plymouth, MI 48180

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: SUPER-LENE
Product Code: 650-B013135
MSDS Code: MSD-00940027
Revision Number: 1
Revision Date: 2011-03-13 09:40:05

II. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
56-81-5	Glycerine	5 - 10
111-76-2	Ethylene glycol mono-n-butyl ether	5 - 10
67-63-0	Isopropanol	3 - 7
107-21-1	Ethylene Glycol	3 - 7

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: 2** **Flammability: 2** **Reactivity: 0**

This product falls under the following WHMIS class:

D2B
B3

Routes of Entry: Inhalation, Ingestion, Skin contact, Eye contact
Target Organs: Skin, Eyes, Kidneys, Respiratory Tract, Kidneys, Liver, Skin, Blood, Eyes, Respiratory Tract, Central Nervous System, Heart
Medical Conditions Aggravated: Respiratory disease including asthma and bronchitis, Kidney disease, Eye disease, Liver disease, Skin disease including eczema and sensitization

Immediate (Acute) Health Effects by Route of Exposure

Inhalation: Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. Irritation may be delayed for several hours.
Skin Contact: Can cause minor skin irritation, defatting, and dermatitis.
Eye Contact: Can cause moderate/severe irritation, tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
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.

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

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 minor skin irritation, defatting, and dermatitis.

Ingredients of this product appear on the following OSHA identified carcinogen lists at \geq 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: Immediately 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 and monitor the eye as advised by your physician.

Skin Contact: Wash with soap and water. 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: Combustible NFPA II. Material will ignite but will not sustain combustion.

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid. Water fog Alcohol foam Carbon dioxide Dry chemical Water spray

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Flash Point: 38 C (100 F) - 60 C (140F)

Firepoint: Firepoint not determined.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

VII. HANDLING AND STORAGE

Product Use: Lithographic Fountain Concentrate
Handling Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use with adequate ventilation. Wash thoroughly after handling. Use bonding and grounding when transferring quantities of material. Use spark-proof tools and explosion-proof equipment
Storage Conditions: Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.
Respiratory Protection: No respiratory protection required under normal conditions of use.
Eye Protection: Wear safety glasses with side shields when handling this product. 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
56-81-5	Glycerine	TOTAL DUST: 15 MG/M3 TWA; RESPIRABLE FRACTION: 5 MG/M3 TWA	10 MG/M3 TWA (TOTAL DUST/PARTICULATE)	No STEL	Not on list
111-76-2	Ethylene glycol mono-n-butyl ether	50 ppm TWA; 240 mg/m3 TWA prevent or reduce skin absorption	20 ppm TWA	No STEL	700 ppm IDLH
67-63-0	Isopropanol	400 ppm TWA; 980 mg/m3 TWA	200 ppm TWA	400 ppm STEL	Not on list
107-21-1	Ethylene Glycol		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: Pink
Odor: Mild

Solubility in Water:	Complete; 100%
Vapor Pressure (mmHg @ 20 deg. C):	0.8
Volatile Organic Chemicals % by wt:	20.04
VOC lb/gal	1.69
Specific Gravity:	1.01
Bulk Density (lbs/Gal):	8.41
Bulk Density (kg/L):	1.01

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Materials to Avoid/Chemical Incompatibility:	Strong oxidizing agents.

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

CAS#	Chemical Name	LD50/LC50
56-81-5	Glycerine	ORAL LD50 RAT: 12600 MG/KG; INHALATION LC50 RAT: >570 MG/M3/1H; ORAL LD50
111-76-2	Ethylene glycol mono-n-butyl ether	Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg
67-63-0	Isopropanol	Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg
107-21-1	Ethylene Glycol	ORAL, RAT: LD50 = 4700 MG/KG; INHALATION, RAT: LC50 = 10876 MG/KG; ORAL, MOUSE: LD50 = 5500 MG/KG; SKIN, RABBIT: LD50 = 9530 UL/KG

XII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	Spent or discarded material may 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.
--------------------	---

Chemical Name	CAS #	Regulation	Percentage
Ethylene glycol	107-21-1	CERCLA	5.39
2-Butoxyethanol	111-76-2	NPRI (Cdn)	8.75
Isopropyl alcohol	67-63-0	NPRI (Cdn)	5.89
Ethylene glycol	107-21-1	NPRI (Cdn)	5.39
Not on list		PROP 65	
Glycol Ethers N-230	111-76-2	SARA 313	8.75
Ethylene glycol	107-21-1	SARA 313	5.39
Not on list		SARA EHS	

The following items require export notification for TSCA

Chemical Name

Not on list

TSCA 12b list section

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 - Non-bulk:	GROUND SHIPMENTS NOT REGULATED IN PACKAGINGS OF 119 GAL (450 L) OR LESS.
IATA - Limited Quantity:	LIMITED QUANTITY EXCEPTION MAY BE USED IF EACH INNER PACKAGING IS 1.3 GAL (5 L) OR LESS. ADD "LTD QTY" TO DESCRIPTION.
IATA - Non-bulk:	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, PGIII, ERG128
IMDG - Non-bulk:	REGULATED. REFER TO BILL OF LADING.

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.