

Varn International, Inc., a Flint Group Company

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13138 DA
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13138 GB
13138 PB

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 Prozar (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: TOTAL (ENVIRO FRIENDLY)
Product Code: 650-B013138
MSDS Code: MSD-00940028
Revision Number: 1
Revision Date: 2011-03-03 16:33:16

II. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%
107-21-1	Ethylene Glycol	1 - 5
111-90-0	Diethylene glycol monoethyl ether	1 - 5

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: 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
Target Organs: Kidneys, Respiratory Tract, Eyes, Central Nervous System, Heart
Medical Conditions Aggravated: Kidney disease, Respiratory disease including asthma and bronchitis, Eye disease

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.
Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion: Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

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.

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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. 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. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this MSDS.

V. FIRE FIGHTING MEASURES

Flammability Not combustible

Summary:

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

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

Hazards:

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: 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: Mildly irritating material. Avoid unnecessary exposure. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage Conditions: Keep from freezing. Keep container closed when not in use.

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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: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. 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
107-21-1	Ethylene Glycol		No TLV	No STEL	Not on list
111-90-0	Diethylene glycol monoethyl ether		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%
Volatile Organic Chemicals % by wt: 6.06
VOC lb/gal 0.56
Specific Gravity: 1.1
Bulk Density (lbs/Gal): 9.16
Bulk Density (kg/L): 1.1

X. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: None known.
Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents.

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

CAS#	Chemical Name	LD50/LC50
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
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

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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.

Chemical Name	CAS #	Regulation	Percentage
Ethylene glycol	107-21-1	CERCLA	3.85
Ethylene glycol	107-21-1	NPRI (Cdn)	3.85
Not on list		PROP 65	
Magnesium nitrate (Nitrate Compound)	10377-60-3	SARA 313	9.32
Ethylene glycol	107-21-1	SARA 313	3.85
2-(2-Ethoxyethoxy)ethanol (Glycol Ether)	111-90-0	SARA 313	1.89
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.