

Vulsay Industries Ltd.
MATERIAL SAFETY DATA SHEET

FLO-PERM MINERAL SPIRITS

REVISION DATE: March 05, 2017

I PRODUCT INFORMATION

Product: Flo-perm Mineral Spirits

Supplier: Vulsay Industries Ltd., 35 Regan Road, Brampton, ONT L7A 1 B2

Telephone: (905) 846 2200

24 hours EMERGENCY Phone # - Call CANUTEC at (613) 996 6666

Chemical Type: Aliphatic hydrocarbon, **Product Use:** Solvent

WHMIS Classification: B3 Combustible liquid . D2B Other toxic effects , skin irritant



TDG Classification: UN 1268, Shipping name: Petroleum Distillates, N.O.S.
Packing group: III, Primary class 3

PART NUMBERS
90673
90671

This material is not regulated under TDG as per section 1.33 (Class 3, Flammable liquids: General Exemption) **in a container of 450 L capacity or less.**

II Composition / information on Ingredients

Ingredient	% Wt (Concentration)	CAS #	LD50	LC50
Stoddard solvent	100%	8052-41-3	LD50 > 5.0 g/kg (Oral – rat) LD50>2.0 g/kg (Dermal – rabbit)	Not available
The following substances may be present in stoddard solvent				
Ethyl Benzene	<0.2%	100-41-4	LD50: 3.5 g/kg (Oral – rat)	4000 ppm (4 hrs)
Naphthalene	<0.2%	91-20-3	LD50: 0.49 g/kg (Oral – rat)	Not Available
Nonane	1 – 5%	111-84-2	None	
1,2,4 – Trimethylbenzene	<4.0%	I95-63-6	LD50: 5.0 g/kg (Oral – rat)	3662 ppm (Rat)
Xylenes	<0.9%	1330-20-7	LD50: 4.3 g/kg (Oral – rat)	5000 ppm (Rat)

III Physical Data

Physical State: Liquid **Odour and Appearance:** Clear colourless liquid with Mild Petroleum odor

Specific Gravity: 0.790 **Vapour Pressure:** 0.3 kPa at 20 deg C

Vapour Density (Air = 1): 5 **Boiling Point:** 158 to 197 Deg C

Evaporation Rate: 0.1 Approximately **Freezing Point:** Not Applicable

Volatile: 100

IV Fire or Explosion Hazard

Combustible Liquid - May form combustible mixtures at or above the flash point.

Conditions of flammability: Excessive Heat, flame, sparks, This liquid is volatile and gives off invisible

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vapours. Either the liquid or vapour may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Fire and explosion hazards: The product will ignite upon exposure to flame or spark. Keep the product away from heat, flame, sparks and ignition sources. Closed container may explode when exposed to extreme heat.

Means of extinction: Use water spray. Foam or dry chemical.

Flash Point (TCC): 43° C **Auto Ignition Temperature:** 229° C

Flammable Limits(% by volume): 1 to 13.3 % by Volume approximate

Hazardous decomposition products: Fumes, smoke and CO

V Reactivity Data

Stability: Stable **Conditions to avoid:** Heat, sparks, open flames

Incompatible materials: Strong oxidizing materials

Hazardous Polymerization: Will not occur

VI Toxicological Properties

Occupational Exposure Limit:

ACGIH Recommends: For Trimethylbenzene - 25 ppm

For Stoddard Solvent - 100 ppm

Skin contact: Irritant to skin, may cause dermatitis on prolonged contact

Eye contact: Eye irritant. Inhalation: Inhalation in high vapour concentrations may cause dizziness, headache, and lack of co-ordination, central nervous system effect.

Ingestion: Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

Carcinogenicity: This product contains ethylbenzene. A draft report on a study conducted by the National Toxicology program states that lifetime inhalation exposure of rats and mice to concentrations of ethylbenzene (750 ppm) resulted in increases in certain types of cancer in rats and mice. These effects were not observed in animals exposed to lower concentrations of ethylbenzene (75 ppm or 250 ppm). The draft report does not address the relevance of these results to humans.

Special Health Precautions: Minimize the exposure to liquids, vapours, mists or fumes.

Personal Protection: Safety glasses with side shield, chemical resistant gloves, rubber apron to avoid contact with clothing, impervious shoes Engineering controls: If product application location (e.g. inside) warrants, local ventilation at the source. Leak and spill procedure: Stop leak if possible. Remove ignition sources, apply inert material (e.g. earth, sand) to contain spill. Waste disposal: In accordance with local, provincial/state and federal regulations. Handling procedures, storage and shipping: Keep containers closed when not in use. Use ground and bonding during pouring. Do not handle or store near heat, sparks, flame or strong oxidants.

VII PREVENTATIVE MEASURES, HANDLING AND STORAGE



PERSONAL PROTECTIVE EQUIPMENT: Normal body covering clothing for most conditions

GLOVES (SPECIFY): Impervious for prolonged or repeated exposure

RESPIRATORY (SPECIFY): Air purifying respirator if atmospheric level is high

EYES (SPECIFY): Glasses for splash, full-face respirator if vapours cause discomfort.

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FOOTWEAR: Normal

ENGINEERING CONTROLS: General ventilation, local for mists

LEAK AND SPILL PROCEDURE: Eliminate all sources of ignition in vicinity of the spilled or released fluid. Small spills, soak up with suitable absorbent. Large spills - dike material, pump into suitable containers for disposal.

WASTE DISPOSAL: Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must comply with all Federal, State/Provincial and local laws and regulations.

HANDLING, STORAGE AND SHIPPING: Keep container closed when not in use. Store away from heat, spark or open flame. Do not store near foodstuffs, or potable water supplies. Product on surfaces can cause slippery conditions. Practice reasonable care and cleanliness. Avoid breathing spray mists if generated. Keep out of reach of children. Poison. Do not drink this material. In keeping with good personal hygiene practices, wash hands thoroughly after handling the material. Empty containers may contain product residue. Do not reuse empty containers.

VIII First Aid Measures

Inhalation: Remove victim to fresh air. **Call for medical help immediately.**

Ingestion: If swallowed, do not induce vomiting. **Call for medical help immediately** Eye Contact: Flush eyes with water for 15-20 minutes. See doctor if irritation persists Skin Contact: Remove contaminated clothing, wash with mild soap and water.

IX MSDS Preparation Information

Prepared by: Quality Control Department

Revision Notes: Reprint

Sources: MSDS of similar products

Phone #: (905) 846 2200

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