




MATERIAL SAFETY DATA SHEET

**FM ADHESIVE TROWEL
GRADE (VOC-1)**

WHMIS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS
 	 	 <p>TARS, LIQUID Class 3 UN1999 P.G.: III</p>

SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: FM Adhesive Trowel Grade (VOC-1)

Code of MSDS: CA U DRU SS FS 101
Formula Number : Not available
Revision date: January 10, 2007
Revised by: Marie-Claude Fontaine, Health and Safety Supervisor
 (800) 567-1492
mcfontaine@soprema.ca

Distributors: Soprema USA
 310 Quadral Drive
 Wadsworth (Ohio) 44281
 UNITED STATES
 Tel.: (800) 356-3521

In case of emergency:
 SOPREMA (8:00am to 5:00pm – Eastern time): (800) 567-1492
 CANUTEC (Canada) (24h.): (613) 996-6666
 CHEMTREC (USA) (24h.): (800) 424-9300
 Poison Control Centre: Consult local telephone directory

SECTION II. COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS

INGREDIENT NAME	CAS NUMBER	% WEIGHT	OSHA PEL	ACGIH TLV
Asphalt	8052-42-4	50-70	N/E	0.5 mg/m ³
Stoddard Solvent	8052-41-3	15-20	500 ppm	100 ppm
Limestone	1317-65-3	15-25	5 mg/m ³	10 mg/m ³
Cellulose	9004-34-6	< 10	5 mg/m ³	10 mg/m ³
Fuller's Earth	8031-18-3	< 10	15 mg/m ³	5 mg/m ³
Emulsifiers	61789-77-3	< 5	Not established	Not established

SECTION III. HAZARDS IDENTIFICATION*Effects of Short-Term (Acute) Exposure***INHALATION:****Stoddard Solvent:**

Vapours or mist can cause irritation and central nervous system (CNS) effects, such as headache, dizziness, intellectual impairment and fatigue. (1)

SKIN CONTACT:**Stoddard Solvent:**

Stoddard solvent is a moderate skin irritant, based on animal information. Repeated or prolonged exposure may result in contact dermatitis. (1)

EYE CONTACT:**Stoddard Solvent:**

The vapour, mist and liquid can cause mild eye irritation. (1)

INGESTION:**Stoddard Solvent:**

Animal studies indicate the oral toxicity of Stoddard solvent is low. However, it is very hazardous if even a few mL are aspirated (breathed into the lungs). Aspiration can occur easily with Stoddard solvent during ingestion or vomiting. It can cause severe lung injury and may even be fatal. Ingestion is not a typical route of occupational exposure. (1)

*Effects of Long-Term (Chronic) Exposure***SKIN:****Stoddard Solvent:**

Repeated or prolonged contact with the skin can cause irritation. Case reports indicate that when Stoddard solvent is allowed to remain in close contact with skin, as when clothing wet with Stoddard solvent is worn, blisters and sores may develop. (1)

KIDNEYS / URINARY SYSTEM:**Stoddard Solvent:**

There is one case report of a worker developing kidney injury after intense, unprotected skin and inhalation exposures to Stoddard solvent 6 hours / day for one year. The worker experienced significant acute toxicity as a result of this exposure. (1)

LIVER:**Stoddard Solvent:**

An association of liver injury with exposure to organic solvents, such as Stoddard solvent, was found in one study of house painters. The painters were also exposed to many other chemicals and it is not possible to draw any conclusions from this study. (1)

BLOOD / BLOOD FORMING SYSTEM:**Stoddard Solvent:**

Decreased bone marrow cell production (aplastic anemia) has been seen in people exposed repeatedly for long periods (months to years) to Stoddard solvent. (1)

CARCINOGENICITY:**Stoddard Solvent:**

IARC has reviewed the carcinogenicity of petroleum solvents (including Stoddard solvent in a sub-group of white spirits). IARC concluded that petroleum solvents are not classifiable as to their carcinogenicity to humans. The International Agency for Research on Cancer (IARC) has concluded that this chemical is not classifiable as to its carcinogenicity to humans (Group 3). The American Conference of Governmental Industrial Hygienists (ACGIH) has not assigned a carcinogenicity designation to this chemical. The US National Toxicology Program (NTP) has not listed this chemical in its report on carcinogens. (1)

TERATOGENICITY AND EMBRYOTOXICITY:**Stoddard Solvent:**

Two studies have made associations between exposure to white spirit (Stoddard solvent) and birth defects. No conclusions can be drawn because of small numbers, other exposures and other limiting factors. (1)

REPRODUCTIVE TOXICITY:**Stoddard Solvent:**

No human or animal information available. (1)

MUTAGENICITY:**Stoddard Solvent:**

Not mutagenic when tested on cultured human blood cells (in vitro). Also negative in animal studies and a bacterial test. (1)

TOXICOLOGICALLY SYNERGISTIC MATERIALS:**Stoddard Solvent:**

No information available. (1)

POTENTIAL FOR ACCUMULATION:**Stoddard Solvent:**

Because of its solubility in fat, Stoddard solvent may accumulate in fat to some extent. (1)

SECTION IV. FIRST AID MEASURES

SKIN:	Wash with soap and water.
INGESTION:	Do not induce vomiting, seek medical attention.
INHALATION:	Remove to fresh air.

SECTION V. FIRE-FIGHTING MEASURES

FLASH POINT:	>105°F (COC)
FLAMMABILITY LIMITS:	LEL – 1.0 % UEL – 6.0 %
EXTINGUISHING MEDIA:	Chemical foam / CO ₂ / Dry chemical
SPECIAL FIRE-FIGHTING PROCEDURES:	Self-contained breathing apparatus may be necessary. COMBUSTIBLE: Keep away from high heat and open flame.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	N/A

SECTION VI. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL:	Isolate from open flame and strong oxidizers.
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SECTION VII. HANDLING AND STORAGE

PRECAUTIONS IN HANDLING AND STORING:	This material is a COMBUSTIBLE AND TOXIC LIQUID. Do not store near heat or flame. Use protective gloves when handling material. Use with adequate ventilation.
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SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY:	Normally not required.
EYE PROTECTION:	Use goggles or safety glasses.
HAND PROTECTION:	Use protective gloves.
OTHER PROTECTION:	None required.
VENTILATION:	Ventilate as needed for exposure limits.
WORK / HYGIENE PRACTICES:	Standard hygienic practices.
OTHER PRECAUTIONS:	Avoid prolonged contact. For industrial use only. Keep out of reach of children.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	315°F
VAPOR PRESSURE:	2.0 mm Hg
VAPOR DENSITY:	4.9 (Air = 1)
SPECIFIC GRAVITY:	1.27 (H ₂ O = 1)
VOC CONTENT:	< 250 g/L
MELTING POINT:	N/A
EVAPORATION RATE:	N/E
SOLUBILITY IN WATER:	Insoluble
APPEARANCE/ODOR:	Black / Mild, non-residual

SECTION X. STABILITY AND REACTIVITY

STABILITY:	Stable.
CONDITIONS AND MATERIALS TO AVOID:	Keep away from open flame or high heat.
INCOMPATIBILITY:	Isolate from strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon dioxide and carbon monoxide when burned. Hazardous polymerization will not occur.

SECTION XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA:

Stoddard Solvent: (1)

LC50 (rat):	Greater than 5500 mg/m ³ (880 ppm) (whole body exposure for 4 hours)
LD50 (oral, rat):	Greater than 5000 mg/kg
LD50 (dermal, rabbit):	Greater than 3000 mg/kg

EYE IRRITATION:

Stoddard Solvent:

Stoddard solvent is a mild eye irritant. Caused minimal irritation in rabbits when 0.1 mL was applied in a standard Draize test. (1)

SKIN IRRITATION:

Stoddard Solvent:

Stoddard solvent is a moderate skin irritant. (1)

Effects of Short-Term (Acute) Exposure

INHALATION:

Stoddard Solvent:

Short-term animal studies have shown depression of the central nervous system and irritation of the eyes, nose and throat. (1)

Effects of Long-Term (Chronic) Exposure

INHALATION:

Stoddard Solvent:

Long-term animal studies have shown only lung irritation and slight liver and kidney effects. (1)

SKIN SENSITIZATION:

Stoddard Solvent:

No sensitization seen when tested on guinea pigs. (1)

TERATOGENICITY, EMBRYOTOXICITY, FETOTOXICITY:

Stoddard Solvent:

No fetal effects were reported following maternal exposure of rats to 100 or 300 ppm white spirits 6 hours/day during pregnancy. No further details were reported. No effects were obtained in another study with exposures up to 950 ppm, in spite of maternal toxicity. (1)

MUTAGENICITY:

Stoddard Solvent:

Stoddard solvent injected into mice, or rat bone marrow, did not produce chromosomal aberrations. It did not induce mutations in sperm of male rats exposed prior to mating. (1)

SECTION XII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Discard according to Federal, State and Local regulations.

SECTION XIII. TRANSPORT INFORMATION

Transportation Information for Bulk Shipments (same for non-bulk shipments, however, hazardous placard is not required for non-bulk shipments in Continental US).

DOT Shipping Name:	Tars, Liquid
DOT Hazard Class:	3
DOT ID No:	UN 1999
DOT Packaging Group:	III
Hazard Label:	Flammable Liquid
IATA Special Provision:	None
IMO Restrictions:	None

SECTION XIV. REGULATORY INFORMATION

WHMIS: Class B3: Flammable and combustible material – Combustible liquid
Class D2B: Toxic substance with other effects

TSCA (Toxic Substances Control Act) STATUS: Components of this product are listed on the TSCA Inventory.

HMIS RATING:

Health:	1
Fire:	2
Reactivity:	0

SECTION XV. OTHER INFORMATION

References:

(1) CHEMINFO (2007) Canadian Centre of Organisational Health and Safety, Hamilton (Ontario) Canada

Manufacturer Disclaimer: The data given here is based on current knowledge and experience. The purpose of this MSDS is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customer and the protection of the environment.