



SAFETY DATA SHEET

MF-SOL 450-0
MINERAL SPIRIT

Preparation Date: 20/Aug/2018

Version: 2

1. IDENTIFICATION

Product identifier

Product Name MINERAL SPIRIT

Other means of identification

Synonyms Stoddard Solvent

Recommended use of the chemical and restrictions on use

Recommended Use Solvent, diluent, chemical feedstock, or fuel.

Restricted Uses No information available

Initial Supplier Identifier

MF Paints inc.
1605 Dagenais blvd. West
Laval, QC H7L 5A3
Telephone: 1-800-363-8034

Emergency telephone number

24 Hour Emergency Phone Number (CANUTEC): 1-888-226-8832 (1-888-CAN-UTEC)

2. HAZARD IDENTIFICATION

Hazardous Classification of the substance or mixture

Flammable liquids	Category 3
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1

Label elements

Hazard pictograms



Signal Word: Danger

Hazard statements

Flammable liquid and vapor
 May cause drowsiness or dizziness
 May be fatal if swallowed and enters airways
 Suspected of causing cancer

Precautionary Statements

Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves/protective clothing/eye protection/face protection
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Response

IF exposed or concerned: Get medical advice/attention
 IF SWALLOWED: Immediately call a POISON CENTER or doctor
 Do NOT induce vomiting

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

Store locked up
 Store in a well-ventilated place

Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical Name	CAS No	Weight-%	Synonyms
Stoddard Solvent	8052-41-3	90 - 100%	Stoddard Solvent
Distillates (petroleum), Hydrotreated Light	64742-47-8	90 - 100%	Distillates (petroleum), Hydrotreated Light

Notes:

The Stoddard Solvent contains 1,2,4- Trimethylbenzene, cas no 95-63-6 (1-5%), Xylene, cas no 1330-20-7 (0.1-0.9%), Ethylbenzene, cas no 100-41-4 (0.1-0.5%), Naphthalene, cas no 91-20-3 (0.1-0.5%), Nonane, cas no 111-84-2 (1.0-5.0%) as part of it's composition. This product contains either cas number 64742-47-8 or 8052-41-3.

4. FIRST AID

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.

Inhalation

Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Ingestion

ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Self-protection of the first aider

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed:

Low toxicity. Slightly irritating, but will not injure eye tissue. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). High vapor/aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects. Skin contact may aggravate an existing dermatitis condition.

Indication of any immediate medical attention and special treatment needed:**Note to physicians**

The main hazard following accidental ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use DRY chemicals, CO2, alcohol foam or water spray.

Specific hazards arising from the substance or mixture

Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode. Emits toxic fumes under fire conditions. Combustible. Avoid spraying water directly into storage containers due to danger of boil over. This liquid is volatile and gives off invisible vapors.

Hazardous combustion products

Carbon monoxide. Toxic fumes. Smoke.

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE**Precautions for safe handling**

Flammable. Keep the containers closed when not in use. Empty containers may contain hazardous product residues. Handle and open containers with care. Ensure proper electrical grounding procedures are in place. DO NOT handle or store near an open flame, heat, or other sources of ignition. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark (ignition source). DO NOT pressurize, cut, heat, or weld containers. DO NOT reuse empty containers with out commercial cleaning or reconditioning.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, away from heat and ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Limits**

Chemical Name	Alberta OEL	British Columbia OEL	Ontario	Quebec OEL	Exposure Limit - ACGIH	Immediately Dangerous to Life or Health - IDLH
Stoddard Solvent 8052-41-3	TWA: 100 ppm TWA: 572 mg/m ³	TWA: 290 mg/m ³ STEL: 580 mg/m ³	TWA: 525 mg/m ³	TWA: 100 ppm TWA: 525 mg/m ³	100 ppm TLV-TWA	20000 mg/m ³
Distillates (petroleum), Hydrotreated Light 64742-47-8	Not available	TWA: 200 mg/m ³ Skin	Not available	Not available	Not available	Not available

Consult local authorities for recommended exposure limits

Appropriate engineering controls

Engineering controls

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. In the laboratory environment, this product should be handled in a hood. Provide mechanical ventilation in confined spaces.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side shields.

Hand protection

Impervious gloves.

Skin and body protection

The selection of personal protective equipment varies depending upon conditions of use.

Respiratory protection

If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state	Liquid
Color	Clear Colorless
Odor	Mild petroleum.
Odor threshold	No information available

PROPERTIES

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	-58 °C / -72 °F	
Initial boiling point/boiling range	158-195 °C / 316-383 °F	
Flash point	43 °C / 109 °F	Tag Closed Cup ASTM D56
Evaporation rate	0.1	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit:	13.3	
Lower flammability limit:	1	
Vapor pressure	0.3 kPa @ 20°C; 0.9 kPa @ 38°C	

Relative vapor density	5	
Specific Gravity	0.79	
Water solubility	<0.1%	
Solubility in other solvents	No data available	
Partition coefficient	No data available	
Autoignition temperature	229 °C / 444 °F	
Decomposition temperature	No data available	None known
Kinematic viscosity	1.14 cSt @ 25°C	
Dynamic viscosity	No data available	None known
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Molecular weight	No information available	
VOC Percentage Volatility	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. STABILITY AND REACTIVITY

Reactivity/Chemical Stability

Stable

Possibility of hazardous reactions

No additional remark.

Hazardous polymerization

Will not occur.

Conditions to avoid

Avoid excessive heat, open flames and all ignition sources.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide. Toxic fumes. Smoke.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

High vapor/aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.

Eye contact

Slightly irritating, but will not injure eye tissue.

Skin contact

Low toxicity. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Skin contact may aggravate an existing dermatitis condition.

Ingestion

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

Information on toxicological effects**Symptoms**

Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Numerical measures of toxicity**Acute toxicity**

Unknown acute toxicity No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Stoddard Solvent 8052-41-3	Not available	Not available	Not available
Distillates (petroleum), Hydrotreated Light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Low toxicity. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Skin contact may aggravate an existing dermatitis condition.

Serious eye damage/eye irritation

Slightly irritating, but will not injure eye tissue.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

Classification based on data available for ingredients. Contains a known or suspected mutagen.

Carcinogenicity

This product contains ethylbenzene. The International Agency for Research on Cancer has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

Chemical Name	ACGIH	IARC	NTP	OSHA
Stoddard Solvent 8052-41-3	Not available	Not available	Not available	Not available
Distillates (petroleum), Hydrotreated Light 64742-47-8	Not available	Not available	Not available	Not available

Reproductive toxicity

No information available.

Specific target organ systemic toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ systemic toxicity - repeated exposure

No information available.

Aspiration hazard

May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Fish Species Data	Toxicity to microorganisms	Crustacea
Stoddard Solvent 8052-41-3	Not available	Not available	Not available	Not available
Distillates (petroleum), Hydrotreated Light 64742-47-8	Not available	45 mg/L LC50 (Pimephales promelas) 96 h flow-through 2.2 mg/L LC50 (Lepomis macrochirus) 96 h static 2.4 mg/L LC50 (Oncorhynchus mykiss) 96 h static	Not available	Not available

Persistence and degradability No information available.

Bioaccumulation No information available.

Chemical Name	Partition coefficient
Stoddard Solvent 8052-41-3	Not available
Distillates (petroleum), Hydrotreated Light 64742-47-8	Not available

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number	UN1268
Shipping name	PETROLEUM DISTILLATES, N.O.S.
Class	3
Packing Group	III
Marine pollutant	Not available.
Note	Not regulated under the Transportation of Dangerous Goods Act when transported by road or rail in packagings or containers of 450 L or less (waste excluded).

DOT (U.S.)

UN Number	UN1268
Shipping name	PETROLEUM DISTILLATES, N.O.S.
Class	3
Packing Group	III
Marine pollutant	Not available

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Regulatory Rules

Chemical Name	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Stoddard Solvent - 8052-41-3	Not Listed	Not Listed	Not Listed
Distillates (petroleum), Hydrotreated Light - 64742-47-8	Not Listed	Not Listed	Not Listed

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA: Health hazards 2 Flammability 2 Instability 0 Physical and chemical properties -
HMIS Health Rating: Health hazards 2 * Flammability 2 Physical hazards 0 Personal protection X

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value * Skin designation

Preparation Date: 20/Aug/2018
Revision Date: 20/Aug/2018

Disclaimer

NOTICE TO READER:

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End of Safety Data Sheet