

STELMAX - THINNERS & CLEANING FLUID

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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : **STELMAX - THINNERS & CLEANING FLUID**

Product Code(s) : Solvent Cleaner 1950; Part # D-ST1950-1L

Product Use : Cleaning PVC Surfaces and Thinning Paste or Paint.

Chemical Family : Mixture.

Supplier's name and address:
Ferco Ferrures de bâtiment
2000, rue Berlier
Laval, QC, Canada
H7L 4S4

Manufacturer's name and address:
Refer to Supplier

Information Telephone # : (514) 973-1437

24 Hr. Emergency Tel # : Not available.

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:
Class B2 (Flammable Liquids);
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification:
Flammable liquid;
Acute Health Hazard;
Chronic Health Hazard.

Emergency Overview : Clear, colourless liquid. Aromatic-ketone odour.
WARNING! Flammable liquid. Vapour is heavier than air and will collect in low-lying places. Vapour may cause flash fire! May be harmful if inhaled. May cause nausea, vomiting, headache and other central nervous system effects. May be fatal if swallowed - can enter the lungs and cause damage. IRRITANT. May cause skin irritation. May cause respiratory irritation. May cause respiratory irritation. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Skin : May cause mild to moderate skin irritation. Product may be absorbed.

Eyes : May cause mild eye irritation. Symptoms will include pain, redness and tearing.

Ingestion : May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Material is an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Effects of long-term (chronic) exposure

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Prolonged overexposure may cause liver and kidney effects.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : Potential teratogen. See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt.%</u>
Ethyl acetate	141-78-6	55.00 - 65.00
Methyl isobutyl ketone	108-10-1	15.00 - 25.00
Xylene	1330-20-7	15.00 - 25.00

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Remove exposed person to fresh air immediately. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial respiration. Get medical attention.
- Skin contact** : Flush contaminated area with lukewarm, gently running water for at least 5 to 10 minutes or until the chemical is removed. Remove contaminated clothing and shoes under running water. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Obtain medical attention immediately.
- Notes For Physician** : Treat symptomatically. This product is a CNS depressant.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Flammable liquid. Vapours may form explosive mixture with air. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapours are heavier than air and collect in confined and low-lying areas. Vapours may cause flash fire. Product may float, and be re-ignited at the water's surface.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Flammable Liquid Class 1B.

Oxidizing properties

- : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact. Product will accumulate static charge. Mixtures of vapour and air at concentrations in the flammable range may be ignited by a static discharge of sufficient energy.

Suitable extinguishing media

- : Dry chemical, carbon dioxide and foam.

Special fire-fighting procedures/equipment

- : During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products

- : Carbon oxides, aldehydes, reactive hydrocarbons and other irritating fumes and smoke.

NFPA Rating

- 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
- : Health: 1 Flammability: 3 Instability: 0 Special Hazards: None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

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- Environmental precautions** : Do not allow material to contaminate ground water system. Dispose of as special waste in compliance with local and national regulations.
- Spill response/cleanup** : Ventilate area of release. Eliminate all ignition sources. Remove combustible materials. Stop the spill at source if it is safe to do so. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.
- Prohibited materials** : Do not use combustible absorbents, such as sawdust.
- Special spill response procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): ethyl acetate (5000 lbs / 2270 kg); Methyl isobutyl ketone (5000 lbs / 2270 kg); Xylene (100 lbs / 45.4 kg).

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Bond and ground transfer containers and equipment. Do not use near welding operations, flames or hot surfaces. Inspect containers for leaks before handling. Label containers appropriately. Ensure adequate ventilation. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Prevent buildup of vapours. Keep away from oxidizing agents and incompatibles. Keep containers closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
- Storage requirements** : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store out of direct sunlight. Do not store near any incompatible materials (see Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Keep container tightly closed. Storage facilities should be made of fire resistant materials. For large-scale storage, use a grounded, non-sparking ventilation system, approved explosion-proof equipment and intrinsically safe electrical systems. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.
- Incompatible materials** : Avoid STRONG OXIDIZING AGENTS (e.g. Chlorides, Peroxides), STRONG ACIDS (e.g. Sulfuric Acid), REDUCING AGENTS (e.g. metal hydrides), STRONG BASES (e.g. Sodium hydroxide), etc
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

<u>Exposure Limits</u>				
<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Ethyl acetate	400 ppm	N/Av	400 ppm	N/Av
Methyl isobutyl ketone	50 ppm	75 ppm	100 ppm	N/Av
Xylene	100 ppm	150 ppm	100 ppm	N/Av

- Ventilation and engineering measures** : Local exhaust ventilation is preferred to prevent contaminant dispersion into work area.
- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended.
- Skin protection** : Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

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- Eye / face protection** : Wear protective chemical safety goggles, or in splash environment, in combination with a face shield.
- Other protective equipment** : Depending on conditions of use, safety shoes and additional protective clothing may also be necessary. An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid contact with skin, eyes and clothing. Avoid breathing vapour or mist. Do not eat, drink, smoke or use cosmetics while working with this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Separate contaminated work clothes from street clothes.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid	Appearance	: Clear colourless liquid.
Odour	: Aromatic-ketone odour.	Odour threshold	: N/Av
pH	: N/Av		
Boiling point	: 77 - 139°C (170.6 - 282.2°F)	Specific gravity	: <1
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av
Vapour pressure (mmHg @ 20° C / 68° F)	: 55 mmHg @ 20°C (68°F)	Solubility in water	: Insoluble.
Vapour density (Air = 1)	: 3.04	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: 100
Flash point	: 2°C (35.6°F)		
Flash point Method	: closed cup	Auto-ignition temperature	: 426°C (798.8°F)
Lower flammable limit (% by vol.)	: 1.0	Upper flammable limit (% by vol.)	: 11.0
Flame Projection Length	: N/Av	Flashback observed	: N/Av

Section 10: Stability And Reactivity

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed. In the presence of water, product may slowly hydrolyze to ethyl alcohol and acetic acid. May form explosive peroxides during prolonged exposure to air and heat.
- Hazardous polymerization** : Hazardous polymerisation does not occur.
- Conditions to avoid** : Avoid heat, open flames, sparks, static electricity and electrical equipment. Keep away from direct sunlight.
- Materials To Avoid And Incompatibility** : See Section 7 (Handling and Storage) for further details.
- Hazardous decomposition products** : Ethyl alcohol, Acetic acid, peroxides. Refer to Section 5 for additional 'Hazardous combustion products'.

SECTION 11 - TOXICOLOGICAL INFORMATION

- Target organs** : Eyes, skin, respiratory system, digestive system, central nervous system.
- Routes of exposure** : *Inhalation*: YES *Skin Absorption*: YES *Skin & Eyes*: YES *Ingestion*: YES
- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Ingredients	LC₅₀(4hr)	LD₅₀	
	inh, rat	(Oral, rat)	(Rabbit, dermal)
Ethyl acetate	19,600ppm	5600 mg/kg	> 18,000 mg/kg
Methyl isobutyl ketone	2000 - 4000 ppm	2080 mg/kg	> 3000 mg/kg

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Xylene	6350ppm	4300 mg/kg	12,180 mg/kg
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- Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects** : None known.
- Teratogenicity** : POSSIBLE BIRTH DEFECT HAZARD. This product contains Xylene. Xylene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.
- Mutagenicity** : None known.
- Epidemiology** : Not available.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : None known or reported by the manufacturer. In one study, the combination of ethyl acetate and formaldehyde was more acutely toxic to rats than predicted from the toxicities of the individual chemicals. In studies with mice, Methyl isobutyl ketone prolonged the loss of righting reflex induced by ethanol. In animal studies, Methyl isobutyl ketone has been shown to potentiate the hepatotoxicity (liver damage) of haloalkanes, such as chloroform, carbon tetrachloride and 1,2-dichlorobenzene. Combined exposure to methyl ethyl ketone and Methyl isobutyl ketone caused increased behavioral responses in baboons. Exposure to related solvents, such as benzene, toluene and ethanol (alcohol) slows the rate of clearance of Xylene from the body, thus enhancing its toxic effects. Exposure to Xylene in combination with other solvents has had an additive effect with respect to harming the hearing of rats.
- Irritancy** : Mild to moderate skin irritant. Mild eye irritant.
- other important hazards** : CNS depression may result from extreme exposures.
- Conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.


SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself.
- Bioaccumulation potential** : No data is available on the product itself.
- Other Adverse Environmental effects** : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Store material for disposal as indicated in Handling and Storage (Section 7). Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.


SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (ethyl acetate; Methyl isobutyl ketone)	3	II	
TDG Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.				

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49CFR/DOT	UN1993	Flammable Liquids, n.o.s. (Contains: Ethyl acetate; Methyl isobutyl ketone)	3	II	
49CFR/DOT Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.150.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): ethyl acetate (5000 lbs / 2270 kg); Methyl isobutyl ketone (5000 lbs / 2270 kg); Xylene (100 lbs / 45.4 kg).

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Methyl isobutyl ketone; Xylene.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: ethyl acetate (CA, MA, MN, NJ, PA, RI); Methyl isobutyl ketone (CA, MA, MN, NJ, PA, RI); Xylene (CA, MA, MN, NJ, PA, RI).

International Information:

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA): Mixture. All components of this product are on the Canadian DSL list.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

SECTION 16 - OTHER INFORMATION

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
*Health: *2 Flammability: 3 Reactivity: 1*

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
 CA: California
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 CNS: Central Nervous System
 DOT: Department of Transportation
 DSL: Domestic Substances List
 EPA: Environmental Protection Agency
 HMIS: Hazardous Materials Identification System
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation

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LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2009.
- 2. International Agency for Research on Cancer Monographs, searched 2010.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2010 (Chempendium, HSDB, RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists October 2006 version.
- 6. California Proposition 65 List February 5, 2010 version.

<p>Prepared for: Ferco Ferrures de bâtiment 2000, Rue Berlier Laval, Qué (Canada), H7L 4S4 Please direct all inquiries to Ferco Ferrures de bâtiment.</p>	
<p>Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	 <p>HAZARDOUS MATERIALS REGULATIONS SPECIALISTS</p>

DISCLAIMER OF LIABILITY

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Revision Information : Sections 2 and 3, switched.
(M)SDS sections updated:
2. HAZARDS IDENTIFICATION;
3. COMPOSITION/INFORMATION ON INGREDIENTS;
5. FIRE-FIGHTING MEASURES;
6. Accidental release measures;
8. EXPOSURE CONTROLS / PERSONAL PROTECTION;
9. PHYSICAL AND CHEMICAL PROPERTIES;
11. TOXICOLOGICAL INFORMATION;
12. ECOLOGICAL INFORMATION;
14. TRANSPORT INFORMATION;
15. REGULATORY INFORMATION.

END OF DOCUMENT