



Factor II, Incorporated

P.O. Box 1339
Lakeside, AZ 85929

Phone:(928) 537-8387
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MATERIAL SAFETY DATA SHEET FE-100 FUNCTIONAL EXTRINSIC SOLVENT

**In Case of emergency contact CHEMTREC
Within USA/Canada 1-800-424-9300
Outside USA/Canada +1 703-527-3887**

Factor II Technology urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling each customer or recipient should: (1) notify and furnish its employees, agents, contractors, customers, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) request its customers to notify their employees, customers and other users of the product of this information.

1. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT NAME: Silicone Solvent

PHYSICAL FORM: Liquid

COLOR: Colorless

ODOR: Odor slight

NFPA PROFILE **Health 1** **Flammability 3** **Reactivity 0**

SPECIFIC GRAVITY @ 25°C: 0.76

VISCOSITY: 0.65 CST

FREEZING/MELTING POINT: N/A

VAOPR PRESSURE/DENSITY: 5

SOLUBILITY IN WATER: Slight

VOLATILE CONTENT: Not Determined

2. HAZARDOUS INGREDIENTS

%	MATERIAL	CAS#
85	Hexamethyldisiloxane	107-46-0
15	Decamethylcyclopentasiloxane	541-02-6

3. HAZARDS IDENTIFICATION

ACUTE EFFECTS OF OVEREXPOSURE

SWALLOWING:

Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may cause drowsiness, nausea and vomiting.



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SKIN ABSORPTION:

No significant irritation expected from a single short-term exposure.

INHALATION:

Harmful if inhaled. Overexposure may cause serious illness. Vapor overexposure may cause drowsiness.

EYE CONTACT:

Direct contact may cause mild irritation.

EFFECTS OF REPEATED OVEREXPOSURE:

Skin: Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.

INHALATION:

No known applicable information.

ORAL:

Repeated ingestion or swallowing large amounts may injure internally.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

No known applicable information

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product.

OTHER EFFECTS OF OVEREXPOSURE

None currently known.

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING:

Obtain medical attention. If alert give 1-2 glasses water to drink

SKIN:

Wash with soap and water. Get medical attention if irritation or other ill effects develop or persist.

INHALATION:

If symptoms should develop. Remove to fresh air. Obtain Medical attention if symptoms persist.

EYES:

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persist or visual changes.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.



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5. FIRE FIGHTING MEASURES

FLASH POINT (test method(s): 275^oF (EEC Closed Cup) 55°F / -13°C

FLAMMABLE LIMITS IN AIR (by volume):

LOWER: Not Determined UPPER: Not Determined

EXTINGUISHING MEDIA:

On large fires use medium expansion (>30=1) AFFF alcohol compatible foam or water spray. On small fires use medium expansion (>30+1) Aff alcohol compatible foam, co2 or water spray. Water can be used to cool fire exposed containers.

SPECIAL FIRE FIGHTING PROCEDURES:

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Evacuate area in case of overheating or fire. Use water spray to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel to a source of ignition and flash back. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Fire burns more vigorously than would be expected.

HAZARDOUS DECOMPOSITION PRODUCTS: (Under fire conditions)

Oxides of carbon
Silica (crystalline)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Remove possible ignition sources. Dispose of saturated absorbent or cleaning material appropriately, since spontaneous heating may occur. Determine whether to evacuate or isolate the area according to your local emergency plan. Clean up remaining materials from spill with suitable absorbent. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

WASTE DISPOSAL METHOD: Dispose of in accordance with all Federal, State, and local regulations.

7. HANDLING AND STORAGE

Use with adequate ventilation. Avoid breathing vapor. Keep container closed. Avoid eye contact. Do not take internally. Avoid skin contact. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat sparks and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE VALUES AND SOURCE: Local exhaust and General Ventilation

RESPIRATORY PROTECTION:

Suitable respirator Organic Vapor Type

VENTILATION: General (mechanical) room ventilation with local ventilation as needed to maintain exposure below established Occupational Exposure Values.

PROTECTIVE GLOVES: Silver Shield (R).



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EYE PROTECTION: Use safety goggles as a minimum.

SKIN: Wash at mealtime and end of shift. Chemical protective gloves are recommended.

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower.

Comments: When heated to temperatures above 150°C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentration within the OSHA Permissible Exposure Limit for formaldehyde.

9. STABILITY AND REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Avoid contact with elevated temperatures, open flame and other ignition sources, water.

MATERIALS/CHEMICALS TO BE AVOIDED: Water, Strong bases, Acids & Oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

10. TOXICOLOGICAL INFORMATION

Complete information is not yet available. No known applicable information.

11. ECOLOGICAL INFORMATION

AIR: This product is a small low molecular weight volatile compound, it will therefore readily partition into the atmosphere. It is however not a hydrocarbon solvent

WATER: This product has a very low water solubility (<100 ppb). As it has a specific gravity of <1, if discharged to water, it will initially form a surface film. However, as it is very volatile, the product will rapidly evaporate into the air. The aquatic half-life is estimated as between 1-5 days.

TERRESTRIAL ENVIRONMENT: As a result of rapid partitioning into the atmosphere this product is unlikely to be found in sediment or as a component of sewage sludge.

A-315

ECOTOXICITY:

TOXICITY TO BACTERIA AND EFFECT ON EFFLUENT TREATMENT: This product or similar products has been shown to be

Non-toxic to sewage sludge bacteria.

TOXICITY TO AQUATIC ORGANISMS: This product is volatile and has a very short half life in the aquatic environment and therefore

does not present a risk to aquatic organisms.

TOXICITY TO TERRESTRIAL ORGANISMS: Due to its volatility, this product is unlikely to be found in the terrestrial compartment.

BIOCONCENTRATION: This product is low molecular weight lipophilic molecule, which has the potential for bioconcentration.

DEGRADATION:

This product is volatile and is degraded rapidly in the atmosphere with a half life of <30 days. Due to the very low water solubility

of this product, standard OECD protocols for ready and biodegradability of this product.

HAZARD PARAMETERS (LC50

High

Medium

Low



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OR EC50)	<=1	>1 and <=100	>1—
Acute Aquatic Toxicity (mg/kg)	<=100	>100 and <=2000	>2000
Acute Terrestrial Toxicity (mg/kg)			

This table is adapted from "Environmental Toxicology and Risk Assessment". This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above.

12. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

Federal Hazardous Waste codes: N/A

Characteristic Waste: Ignitable: D001 Corrosive: N/A Reactive: N/A

TCLP: N/A

Dispose of in accordance with all Federal, State, and local regulations.

13. TRANSPORT INFORMATION

I.A.T.A. HAZARD CLASSIFICATION:

Proper Shipping Name: Flammable Liquid, N.O.S.

Hazard Technical Name: Hexamethyldisiloxane

Hazard Class: 3

UN Number: UN 1993

UN Packing Group: II

Hazard Label: Flammable Liquid

14. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

Section 312 Hazard Class:

Acute: No

Chronic: No

Fire: Yes

Pressure: No

Reactive: No

CHIP REGULATIONS

Chemicals (Hazards Information and Packaging) Regulations 1993 requires physico-chemical and health hazard determination of all substances and preparations manufactured, transported, stored, modified, or consumed within the EEC. Components present in this product at a level which could require reporting under the statute are:

****NONE ****

FEDERAL EPA

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at a level, which could require reporting under the statute is:

****NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40 CFR 355



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(used for SARA 302, 304, 3- 1, and 312). Components present in this product at a level, which could require reporting under the statute is:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 3 ~ 3). This information must be included in all MSD S's that are copied and distributed for this material. Components present in this product at a level which could require reporting under this statute are:

*** NONE***

INVENTORY STATUS

The ingredients of this product are listed on, or are exempt from listing on, the TSCA inventory.

STATE-RIGHT-TO-KNOW

CAS Number

Wt%

Component

CALIFORNIA Proposition 65

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement

Act of 1986 as being known to cause cancer, birth defects or other reproductive harm.

****NONE****

MASSACHUSETTS 105 CMR 670.000 Right-To-Know, Substance List (MSL)

Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level, which could require reporting under the statute, are:

**** NONE ****

PENNSYLVANIA Right-To-Know, Hazardous Substance List

Hazardous Substances and Special Hazardous Substances on the List must be identified when present in products. Components present in this product at a level, which could require reporting under the statute, are:

000107460	>85	Hexamethyldisiloxane
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NEW JERSEY:

000107460	>85	Hexamethyldisiloxane
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15. OTHER INFORMATION

HMIS FORMAT:

Health: I

Flammability: 3

Reactivity: 0

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Factor II Technology, it is the user's obligation to determine the conditions of safe use of the product.

Factor II Technology Regulatory Compliance Department