

Silsoft ETS fluid

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: Silsoft ETS fluid

Other means of identification

Synonyms: 3-Ethylheptamethyl trisiloxane

Recommended use and restriction on use

Recommended use: Industrial use Component in personal care products

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information : Momentive Performance Materials USA LLC
2750 Balltown Road,
Niskayuna, NY 12309

Contact person : commercial.services@momentive.com

Telephone : General information
+1-800-295-2392

Emergency telephone number

Supplier : CHEMTREC
1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids

Category 3

Label Elements

Hazard Symbol:



Signal Word: Warning

Silsoft ETS fluid

Hazard Statement:	H226; Flammable liquid and vapor.
Precautionary Statements	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/eye protection/face protection.
Response:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. In case of fire: Use alcohol resistant foam for extinction.
Storage:	Store in a well-ventilated place. Keep cool.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

Substances

Composition Comments:	The components are not hazardous or are below required disclosure limits.
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4. First-aid measures

General information:	Move into fresh air and keep at rest. Get medical attention if symptoms occur.
Ingestion:	If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice. Never give liquid to an unconscious person.
Inhalation:	Move to fresh air. Get medical attention if symptoms occur.
Skin Contact:	Wash area with soap and water. Get medical attention if symptoms occur.
Eye contact:	In the event of contact with the eyes, rinse thoroughly with clean water. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	
Symptoms:	Treatment is symptomatic and supportive.
Hazards:	No data available.

Silsoft ETS fluid

Indication of immediate medical attention and special treatment needed

Treatment: If swallowed, do NOT induce vomiting. Give a glass of water.

5. Fire-fighting measures

General Fire Hazards: Do not use water jet as an extinguisher, as this will spread the fire. Use water spray to keep fire-exposed containers cool.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Alcohol resistant foam. Carbon dioxide Dry chemical.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Ground container and transfer equipment to eliminate static electric sparks.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Product may charge electrostatically during pouring or filling. All equipment used when handling the product must be grounded.

Special protective equipment for fire-fighters: Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid contact with eyes, skin, and clothing. Keep out of reach of children. Attention: Not for injection into humans.

Methods and material for containment and cleaning up: Warn other workers of spill. Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

Notification Procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

Silsoft ETS fluid

7. Handling and storage

Precautions for safe handling:	Sensitivity to static discharge is expected; material has a flash point below 200 F. Do not breathe vapor/spray. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. See Section 8 of the SDS for Personal Protective Equipment. Wash hands after handling. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.
Conditions for safe storage, including any incompatibilities:	Avoid heat, sparks, open flames and other ignition sources. Store in original container. Store in a cool, dry and ventilated location

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls

Safety shower.

Individual protection measures, such as personal protective equipment

General information: When using do not eat, drink or smoke. Wash hands after handling. Wear appropriate personal protective equipment.

Eye/face protection: Safety glasses with side shields

Skin Protection

Hand Protection:

Chemical resistant gloves

Other:

Wear suitable protective clothing and eye/face protection.

Respiratory Protection:

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

Hygiene measures:

Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices. Keep container closed.

9. Physical and chemical properties

Appearance

Physical state:

liquid

Form:

liquid

Color:

Colorless

Silsoft ETS fluid

Odor:	Faint
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	< -60 °C
Initial boiling point and boiling range:	172 °C (1,013 hPa)
Flash Point:	45 °C (ASTM D 93)
Evaporation rate:	< 1 (n-Butyl acetate=1)
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Heat of combustion:	No data available.
Vapor pressure:	1.15 hPa (20 °C)
Vapor density:	> 1
Density:	0.828 g/cm ³ (20 °C)
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	Negligible
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	ca. 1.095 mPa·s (20 °C)
Viscosity, kinematic:	No data available.
Minimum ignition temperature:	No data available. No data available.
VOC:	824 g/l ;

10. Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, sparks, flames.

Silsoft ETS fluid

Incompatible Materials:	Acids. Oxidizing agents.
Hazardous Decomposition Products:	In case of fire, gives off (emits): Carbon oxides Oxides of silicon. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	
Product:	LD 50 (Rat, female): > 2,000 mg/kg
Dermal	
Product:	Not classified for acute toxicity based on available data.
Inhalation	
Product:	LC50 (Rat, male and female): > 10 mg/l

Repeated dose toxicity

Product:	NOAEL (Rat(male and female), Oral): 50 mg/kg
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Skin Corrosion/Irritation

Product:	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h): No skin irritation
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Serious Eye Damage/Eye Irritation

Silsoft ETS fluid

Product: OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): Non irritating

Respiratory or Skin Sensitization

Product: , OECD Test Guideline 406 (Guinea Pig)negative

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
Chromosomal aberration (OECD 473): positive
Chromosomal aberration (OECD 473): negative (not mutagenic)

In vivo

Product: Micronucleus test (mouse) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)): negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No adverse effects anticipated from available information. No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Silsoft ETS fluid

Fish

Product: LC50 (Rainbow Trout, 96 h): > 100 mg/l
NOEC (Rainbow Trout, 96 h): 100 mg/l

Aquatic Invertebrates

Product: EC50 (Daphnia magna, 48 h): > 100 mg/l
NOEC (Daphnia magna, 48 h): 100 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: ErC50 (Desmodesmus subspicatus (green algae), 72 h): > 100 mg/l
NOEC (Desmodesmus subspicatus (green algae), 72 h): 31.25 mg/l

Persistence and Degradability

Biodegradation

Product: 60 % (28 d, OECD-Guideline 301 F (Manometric Respirometry Test)) The product is not readily biodegradable.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log K_{ow})

Product: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Disposal should be made in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of as unused product.

Silsoft ETS fluid

14. Transport information

DOT

UN number or ID number:	UN 1993
UN Proper Shipping Name:	Flammable liquids, n.o.s.(3-Ethylheptamethyltrisiloxane)
Transport Hazard Class(es)	
Class:	3
Label(s):	3
Packing Group:	III
Marine Pollutant:	No

IMDG

UN number or ID number:	UN 1993
UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.(3-Ethylheptamethyltrisiloxane)
Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-E
Packing Group:	III
Marine Pollutant:	No
Limited quantity	5.00L
Excepted quantity	E1

IATA

UN number or ID number:	UN 1993
Proper Shipping Name:	Flammable liquid, n.o.s.(3-Ethylheptamethyltrisiloxane)
Transport Hazard Class(es):	
Class:	3
Label(s):	3
Packing Group:	III
Cargo aircraft only Packing Instructions:	366
Passenger and cargo aircraft Packing Instructions:	366
Limited quantity:	Y344
Packing Instructions:	
Excepted quantity	E1
Environmental Hazards:	Not regulated.
Marine Pollutant:	No

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

Silsoft ETS fluid

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

Chemical Identity

3-
Ethylheptamethyltrisiloxa
ne

OSHA hazard(s)

No OSHA Hazards

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

3-Ethylheptamethyltrisiloxane

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

Silsoft ETS fluid

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Silsoft ETS fluid

Inventory Status:

Australia AICS:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing Chemical Substances:	n (negative listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	n (negative listing)	Remarks: This product is intended only for personal care applications. It is not intended for industrial use; therefore, it is not subject to KECI.
Canada DSL Inventory List:	q (quantity restricted)	Remarks: None.
Canada NDSL Inventory:	n (negative listing)	Remarks: None.
Philippines PICCS:	n (negative listing)	Remarks: None.
US TSCA Inventory:	e (special case)	Remarks: This product is intended only for personal care applications. It is not intended for industrial use; therefore, it is not subject to TSCA.
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.
New Zealand Inventory of Chemicals:	n (negative listing)	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	<input type="text" value="0"/>
Flammability	<input type="text" value="2"/>
Physical Hazards	<input type="text" value="0"/>
PERSONAL PROTECTION	<input type="text"/>

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 03/03/2023

Silsoft ETS fluid

Revision Date: No data available.

Version #: 3.1

Further Information: No data available.

Disclaimer:

Notice to reader

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Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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