



Enroute Interfaces Inc.

Material Safety Data Sheet

Prepared in accordance with GHS standard
& Annex II - EC regulation 1907/2006 and amendments

o-Wet

SDS No: 201302

Last Revision Date: January 2, 2016

SECTION 1. IDENTIFICATION

Material Identification: o-Wet

Chemical Name: Silicone compound

Chemical Classification: Silicone

CAS #:

Company Identification: Enroute Interfaces Inc.

ABB 359
1280 Main St. West
Hamilton, Ontario
Canada
L8S 4M1
1-905-515-8108

Recommended Product Usage

Silicone Surfactant

THIS MATERIAL IS FOR R&D USE ONLY - NOT FOR FOOD, MEDICAL OR DRUG USE.

CANUTEC 24-HOUR EMERGENCY RESPONSE TELEPHONE NUMBER: (613) 996-6666

USE IN CASE OF A DANGEROUS GOODS EMERGENCY

SECTION 2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION:

Not Hazardous.

GHS LABEL ELEMENTS (including precautionary statements):

Symbol : None.

Signal Word: Warning.

Hazard Risk Statement:

H227: Combustible liquid

H316: Causes mild skin irritation.

H320: Causes eye irritation.

Precautionary Statement:

Prevention: P262: Do not get in eyes, on skin or on clothing.

Response: P305 + 351+338: IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P302 + 352: IF ON SKIN: Wash with plenty of soap and water.

Storage: P403 + 233: Store in a well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed

Disposal: P501: Dispose of contents/container in accordance with local / regional / national / international regulations.

OTHER HAZARD (risk not included in classification):

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Common Name or Synonym</u>	<u>CAS No.</u>	<u>EINECS/ ELINCS No.</u>	<u>% (w/w)</u>	<u>GHS Classification</u>	<u>Classification according to Directive 67-548/EEC</u>
Decamethylcyclopentasiloxane	D5	541-02-6		<5.0	Not Hazardous	
Silicone polyether				>95.0	Not Hazardous	

SECTION 4. FIRST AID MEASURES

Eyes No first aid should be needed. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: No first aid should be needed. Wash off with soap and plenty of water. Consult a physician.

Inhalation: No first aid should be needed. If discomfort occurs, remove to fresh air.

Ingestion: No first aid should be needed. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5. FIRE FIGHTING MEASURES

Conditions of flammability: Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable Extinguishing Media: Carbon dioxide, dry powder, foam, or water spray. Water can be used to cool fire exposed containers.

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Chemical: Silicon Dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

Special Protective Actions for Fire-Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Use water spray to cool fire exposed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Avoid eye and skin contact. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Use personal protective equipment.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent from entering drains or water sources.

Containment/Clean up: Collect for disposal. 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. Clean area as appropriate since some silicone material, even in small quantities, may present a slip hazard. Final cleaning may require steam, solvents or detergents.

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Avoid eye and skin contact. Avoid inhalation of vapour or mist. Do not take internally. Use with adequate ventilation. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Wash after handling. Exercise good industrial hygiene practice.

Storage Conditions: Keep container tightly closed and away from oxidizing materials. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT VALUES / BIOLOGICAL LIMIT VALUES:

Industrial Hygiene Standards

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>
None known.		

ENGINEERING CONTROLS:

Local Ventilation: None should be needed.
General ventilation: Recommended.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.
Hand protection: Gloves are not normally required.
Eye protection: Safety glasses should be worn.
Skin protection: Protective equipment is not normally required.
Hygiene measures: Observe good industrial hygiene practices. Wash after handling.

Note: These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added precautions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Clear Liquid	<u>Viscosity@25°C:</u>	Not determined
<u>Colour:</u>	Colourless to Light Yellow	<u>Melting/Freezing Point:</u>	Not determined
<u>Odour:</u>	Faint	<u>Initial Boiling Point:</u>	>90°C @ 760 mmHg
<u>Odour Threshold:</u>	Not determined	<u>Boiling Range:</u>	Not determined
<u>Flash Point:</u>	73°C (Pensky-Martens closed cup)	<u>Explosive Properties:</u>	No
<u>Flammability:</u>	Not determined	<u>Vapour Pressure @25°C:</u>	Not determined
<u>Flammability Limits:</u>	Not determined	<u>Vapour Density</u>	Not determined
<u>Auto-ignition Temperature:</u>	Not determined	<u>Partion Coefficient</u>	Not determined
<u>Decomposition Temperature:</u>	Not determined	<u>pH:</u>	Not determined
<u>Specific Gravity @25°C:</u>	0.95	<u>Oxidising Properties:</u>	No
<u>Solubility in Water:</u>	Insoluble	<u>Evaporation Rate:</u>	Not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Slow hydrolysis occurs at pH away from neutrality.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Heat, flames and sparks.

Incompatible Materials: Strong oxidizing material can cause a reaction.

Hazardous Decomposition Products: The following decomposition products may form during fire or at very high temperatures:

Carbon Oxides, Silicon dioxide, Formaldehyde, and traces of incompletely burned carbon compounds.

Other decomposition products - no data available.

SECTION 11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:

Respiratory:	Exposure is expected.
Oral:	Exposure is expected.
Eye, Skin:	Exposure is expected.

INFORMATION ON THE HEALTH HAZARDS:

Acute Toxicity:	None known.
Eyes:	Direct contact may cause temporary redness and discomfort.
Skin:	No significant irritation expected from a single short-term exposure.
Inhalation:	No significant irritation expected from a single short-term exposure.
Ingestion:	Low ingestion hazard in normal use.
Chronic Toxicity:	
Skin:	No known applicable information.
Inhalation:	No known applicable information.
Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.
Other Health Hazard	No known applicable information.
Skin Corrosion/Irritation:	No known applicable information.
Serious Eye Damage/Irritation:	No known applicable information.
Respiratory Sensitization:	No known applicable information.
Skin Sensitization:	No known applicable information.
Carcinogenicity:	No known applicable information.
Germ Cell Mutagenicity:	No known applicable information.
Reproductive Toxicity:	No known applicable information.
Specific Target Organ: (Systemic Toxicity – Single exposure)	No known applicable information.
Specific Target Organ: (Systemic Toxicity – Repeated exposure)	No known applicable information.
Aspiration Hazard:	No known applicable information.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Environmental Effects

Acute: None known.
Chronic: None known.

PERSISTENCE AND DEGRADABILITY:

Degradation: In soil, siloxanes are degraded.
Environmental Fate and Distribution: Siloxanes are removed from water by sedimentation sewage or binding to sludge.

BIOACCUMULATIVE POTENTIAL:

Bioaccumulation: No bioaccumulation potential.

MOBILITY IN SOIL:

None known.

OTHER ADVERSE EFFECTS:

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Product Disposal: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.

Packaging Disposal: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORTATION INFORMATION

AIR TRANSPORT (IATA):

Not subject to IATA regulations.

SEA TRANSPORT (IMDG):

Not subject to IMDG code.

ROAD / RAIL

US DOT (49 CFR 172.101): Applicable only to containers over 119 gallons or 450 liters.
Proper shipping name: Combustible liquid, n.o.s. (Decamethylcyclopentasiloxane)
Packing group: III
Marine Pollutant: No
Poison Inhalation Hazard: No

CANADA TDG: Not subject to TDG regulations.

ADR/RID: Not subject to ADR/RID regulations.

SECTION 15. REGULATORY INFORMATION

CHEMICAL INVENTORIES:

TSCA:	All ingredients are on or exempted from the inventory.
DSL:	All ingredients are on or exempted from the inventory.
EINECS:	All ingredients are on or exempted from the inventory.
AICS:	All ingredients are on or exempted from the inventory.
IECSC:	All ingredients are on or exempted from the inventory.
MITI:	All ingredients are on or exempted from the inventory.
KECL:	All ingredients listed, exempt or notified.
NZIoC:	All ingredients are on or exempted from the inventory.
CSNN:	All ingredients are on or exempted from the inventory.
PICCS:	All ingredients are on or exempted from the inventory.

CANADA

This product has been classified in accordance with the hazard criteria of the CPR, and this MSDS contains all the information required by the CPR.

WHMIS Classification:

B3 Combustible Liquid Combustible Liquid

USA

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances (40 CFR 355):	None
Section 304 CERCLA Hazardous Substances (40 CFR 302):	None
Section 311/312 Hazard Class (40 CFR 370):	Acute: No ; Chronic: No ; Fire: Yes ; Pressure: No ; Reactive: No
Section 313 Toxic Chemicals (40 CFR 372):	None

Supplemental State Compliance Information

California

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 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: **None known.**

Massachusetts / New Jersey / Pennsylvania

No ingredients regulated by MA Right-to-know Laws present.

New Jersey

<u>Ingredient</u>	<u>CAS No.</u>	<u>Wt.%</u>
Decamethylcyclopentasiloxane	541-02-6	<5.0
Silicone polyether		>95.0

Pennsylvania

<u>Ingredient</u>	<u>CAS No.</u>	<u>Wt.%</u>
Decamethylcyclopentasiloxane	541-02-6	<5.0
Silicone polyether		>95.0

KOREA

Classification and labelling in accordance with Industrial Safety and Health Law:

Chemicals controlled in accordance with Toxic Chemicals Control Act: No subject chemicals.

Hazardous Material Safety Management Act: No subject chemicals.

Wastes Management Act: No subject chemicals.

EEC

Labelling according to EEC Directive

S-phrases: S51 (Use only in well-ventilated areas)

R-phrases: **NONE**

GERMANY

Wassergefährdungsklasse (water hazard class) : WGK 1

HMIS	
H	1
F	2
R	0



SECTION 16. OTHER INFORMATION

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This data is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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