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### MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet is principally directed to managerial, safety, hygiene and medical personnel. The description of physical, chemical and toxicological properties and handling advice is based on experimental results and past experience. It is intended as a starting point for the development of health and safety procedures.

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communications Standard (29 CFR 1910.1200).

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#### SECTION I. PRODUCT IDENTIFICATION

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MATERIAL NAME: SILICONE FLUID SWS-101  
CHEMICAL FAMILY: Polydimethylsiloxane  
CHEMICAL NAME AND SYNONYMS: Not applicable  
FORMULA:  $(\text{CH}_3)_3\text{SiO}[(\text{CH}_3)_2\text{SiO}]_x\text{Si}(\text{CH}_3)_3$   
COMPOSITION: This product is 100% polydimethylsiloxane. CAS Registry Number 63148-62-9.

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#### SECTION II. PHYSICAL PROPERTIES

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BOILING POINT, degrees F:	Nonvolatile
VAPOR PRESSURE, 68 deg.F mm. Hg:	<1
VAPOR DENSITY (Air = 1):	Not applicable
SOLUBILITY IN WATER:	Negligible
APPEARANCE AND ODOR:	Clear, colorless, liquid with minimal odor
SPECIFIC GRAVITY (Water = 1):	0.953-0.977
PERCENT VOLATILE (by volume):	Negligible
EVAPORATION RATE (Ether = 1):	Nil
FLASH POINT, degrees F:	>535 deg F (279 deg C) {275-400 deg F for SWS-101(5-20)}
(Method used)	Cleveland Open Cup
FLAMMABLE LIMITS IN AIR, % LEL:	Not applicable
UEL:	Not applicable

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#### SECTION III. FIRE HAZARDS

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This material is a liquid which burns with difficulty, but will support combustion.

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#### SECTION IV. FIREFIGHTING TECHNIQUES

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Use standard fire fighting techniques to extinguish fires involving this material: use water spray, dry chemicals or carbon dioxide.

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#### SECTION V. TOXICOLOGY

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**SKIN CONTACT:** Minimal irritant to rabbit skin  
**EYE CONTACT:** Mild irritant to rabbit eyes  
**ORAL:** Acute oral LD50 is >34,600 mg/kg in female rats.  
**DERMAL:** Acute dermal LD50 is >10,200 mg/kg in rabbits.

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## SECTION VI. HUMAN HEALTH

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Principle routes of exposure are skin contact and eye contact. Skin contact with this material is not known to cause irritation. Eye contact may cause transient eye irritation.

There are no data available which address signs and symptoms of exposure or medical conditions that are generally recognized as being aggravated by exposure to this material. (Reader should consult Section V; TOXICOLOGY for effects observed in experimental animals under controlled laboratory conditions).

This product does not contain any materials listed by IARC, NTP or OSHA as carcinogens.

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## SECTION VII. FIRST AID

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**EYE CONTACT:** In case of contact, flush eyes well with water for 15 minutes. Obtain medical attention if irritation occurs.

**SKIN CONTACT:** Flush skin well with water and wash well with water and soap. Obtain medical attention if irritation occurs.

**INGESTION:** If swallowed, give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have medical personnel determine if vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

**INHALATION:** If inhaled, remove to fresh air. Seek medical attention if respiratory irritation occurs or breathing becomes difficult.

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## SECTION VIII. INDUSTRIAL HYGIENE

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The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary depending upon customer applications, specific safe handling procedures should be developed by a person knowledgeable of the intended use conditions and equipment. During the development of safe handling procedures, consideration should be given to the need for cleaning of equipment and piping systems to render them nonhazardous before maintenance and repair activities are performed.

**ENGINEERING CONTROLS:** In those cases where engineering controls are indicated by the use conditions, the following traditional exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment.

**INGESTION:** All food should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be

prohibited in areas where there is a potential for significant exposure to this material. Before eating, hands and face should be thoroughly washed.

**SKIN CONTACT:** Skin contact should be minimized through the use of gloves and suitable long-sleeved clothing selected with regard for use condition exposure potential.

**EYE CONTACT:** Eye contact should be avoided through the use of chemical safety glasses, goggles or a face shield selected with regard for use condition exposure potential.

**INHALATION:** If use conditions generate airborne contamination, the material should be handled in an open (e.g., outdoor) or well ventilated area. Where adequate ventilation is not available, use NIOSH-approved organic vapor respirators with dust, mist and fume filter to reduce exposure. Where exposure potential under the use conditions necessitates a higher level of protection, use a positive-pressure, air-supplied respirator.

**EXPOSURE LIMITS:** No exposure limit has been established for this material.

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#### SECTION IX. CHEMICAL REACTIVITY

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Relatively nonreactive.

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#### SECTION X. STABILITY

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Stable at ambient temperatures and atmospheric pressure.

**HAZARDOUS DECOMPOSITION PRODUCTS:** SiO<sub>2</sub>, CO, CO<sub>2</sub> and various hydrocarbon fragments.

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#### SECTION XI. SPILL HANDLING

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Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices (refer to SECTION VIII: INDUSTRIAL HYGIENE).

Use proper protective equipment to prevent skin and eye contact.

Absorb spill with sand or Fuller's earth. Sweep up and place in an appropriate chemical waste container. Flush spill area with water. Observe all local, state and federal laws and regulations regarding disposal, spill, cleanup, removal or discharge.

(See SECTION XIV: DISPOSAL OF UNUSED MATERIAL)

Clean up spills thoroughly as residue is slippery. Dike all spills to prevent material from flowing into public and municipal waterways.

IN CASE OF SPILL EMERGENCY, DAY OR NIGHT, CALL CHEMTREC (800-424-9300)

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#### SECTION XII. CORROSIVITY TO MATERIALS OF CONSTRUCTION

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Noncorrosive to materials commonly used in the construction of process equipment, storage and shipping containers.

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#### SECTION XIII. STORAGE REQUIREMENTS

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Store in a cool, dry, well ventilated area. Exercise due caution to prevent damage to the container.

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#### SECTION XIV. DISPOSAL OF UNUSED MATERIAL

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Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulations under the Resource Conservation and Recovery Act. NOTE: State and local regulations may be more stringent than Federal.

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#### SECTION XV. DISPOSAL OF CONTAINER

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Dispose of empty containers according to any applicable regulations under the Resource Conservation and Recovery Act. NOTE: State and local regulations may be more stringent than Federal.

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#### SECTION XVI. ADDITIONAL INFORMATION

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TSCA: This product or its components are listed on the TSCA Chemical Substance Inventory.

SARA: This product does not contain any substances on the list of Toxic Chemicals subject to Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III).

DOT: Proper shipping name: None  
Hazard Classification: Non-hazardous  
UN/NA Number: Not applicable  
Label Required: None  
Hazardous Substance(s): Not applicable

CALIFORNIA PROPOSITION 65: This product contains the following substances known to the State of California to cause cancer or reproductive effects: None

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