



MATERIAL SAFETY DATA SHEET

WL-14

March 2005

**1. PRODUCT IDENTIFICATION**

**WL-14:** Valve lubricant

Manufactured by:  
**Swagelok Company**  
**318 Bishop Road**  
**Highland Hts., OH 44143**

Tel: (440) 473-1050  
Fax: (440) 473-0402

Emergency Contact:  
**Chemtrec (800) 424-9300**

**2. INGREDIENTS**

Ingredients	CAS #	WT%	PEL
Polytetrafluoroethylene	9002-84-0	25-35	Not Available
Perfluorinated Polyether	69991-61-3	55-65	Not Available
Perfluoroalkoxy Resin	26655-00-5	10-20	Not Available

**3. HEALTH HAZARD INFORMATION**

- European Community Danger Group: .....None
- Special Hazards for man or environment: .....None
- LD<sub>50</sub> .....Fluorinated Polyether - 40g/kg

**Routes of Entry**

Skin Contact	Skin Absorption	Eye Contact	Inhalation	Ingestion
No	No	Yes	Yes	Yes

**4. FIRST AID MEASURES**

- If inhaled (Overexposure): Unlikely to be inhaled. If person is affected by fumes, remove person to fresh air. Seek medical attention.
- After contact with skin (Overexposure): Wash thoroughly with soap and water. If severe irritation develops, seek medical attention.
- After contact with eyes: Rinse thoroughly with water for 15 minutes, seek medical attention. Do not rub eyes.
- If swallowed: Seek medical attention.
- Medical information: Inhaling decomposition products can cause temporary influenza-like symptoms which are described as "polymer fume fever". Symptoms include fever, cough, and malaise.



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### 5. FIRE FIGHTING MEASURES

- Suitable extinguishing agents: Carbon dioxide, foam, water, agent suitable for environment.
- Not suitable for safety reasons: None known
- Special dangers caused by substance preparation itself, by combustion products or gases formed: May produce off hydrogen fluoride, carbonyl fluoride, carbon monoxide, and carbon dioxide above 554°F/290°C.
- Additional information: None.

Autoignition	UEL	LEL	Sensitivities
Not Applicable	Not Available	Not Available	Not Available

### 6. ACCIDENTAL RELEASE MEASURES

- Measures for protection of people: Eye and hand protection as needed to minimize excessive exposure.
- Measures for protection of the environment: None required.
- Cleaning measures: Use absorbent material and suitable cleaner.
- Additional information: None.

### 7. HANDLING AND STORAGE

- Safety information: None.
- Information on protection from fire or explosion: May decompose above 554°F/290°C.
- Additional information: Store in a cool, dry place for optimal product performance.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Precautionary measures to protect employees: None required.
- Respiratory protection: None required.
- Hand protection: Rubber gloves are recommended to minimize exposure.
- Eye protection: Safety glasses or goggles are recommended to minimize exposure.
- Skin protection: Wash hands after use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b> White Paste	<b>Odor</b> Neutral	<b>pH</b> Not Applicable	<b>Density</b> 2.0 gm/cm <sup>3</sup>	<b>Vapor Pressure</b> <10 mm Hg @ 20°C
<b>Boiling Point</b> Not Available	<b>Melting Point</b> Not Available	<b>Flash Point</b> Not Available	<b>Flammability</b> Not Available	<b>Explosive</b> Not Applicable



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### 10. STABILITY AND REACTIVITY

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- Conditions to avoid: May produce hazardous fumes above 554°F/290°C.
- Materials to avoid: Strong or non-aqueous alkali above 212°F/100°C, Lewis acids above 212°F/100°C, and strong acids.
- Hazardous decomposition products: See Sections 4 and 5.

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### 11. TOXICOLOGICAL INFORMATION

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- Acute toxic properties: None.
- Health effects: See Sections 4 and 5.
- Additional health effects: None.

Sensitization	Teratogenicity	Reproductive Toxicity	Mutagenicity	Synergistic Products	Carcinogenicity
Not Available	Not Available	Not Available	Not Available	Not Available	Listed ingredients are not suspected carcinogens according to NTP, IARC, and OSHA

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### 12. ECOLOGICAL INFORMATION

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- Mobility: Paste-like viscosity.
- Degradability: Not established.
- Accumulation: No known adverse bioaccumulation or biomagnification effects.
- Short/Long term effects on ecotoxicity: No known ecological effects.

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### 13. DISPOSAL CONSIDERATIONS

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- Appropriate methods of disposal: Unused product not considered a hazardous waste in the United States. Dispose of in a responsible manner.
- European Community (EC) considerations: Use appropriate waste codes based on ingredients.

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### 14. TRANSPORT INFORMATION

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- Transport precautions: Consult applicable regulations when transporting this product.
- Additional information: None.



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### 15. REGULATORY INFORMATION

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- EC regulations: This product has been classified under CHIP-96 guidelines based on chemical content.
- US/Canadian regulation listings: SARA 313 - NO, TSCA - YES, Canada's Controlled Products - NO
- EC Relevant risk: None.
- EC Relevant safety: S: 37/39 - Wear suitable gloves and eye/face protection.  
S:20 - When using do not eat or drink.
- Additional information: Consult country codes for specific requirements.

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### 16. OTHER INFORMATION

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- Further information contact: Your Swagelok Distributor or the contacts listed in Section 1 of this sheet.
- Sources of information used to compile document: Properties of individual ingredients were used to compile this document. This Material Safety Data Sheet was designed to give the distributors and users of WL-14 information to handle and use the product in a responsible manner.

#### **Preparation Data**

Swagelok Environmental and Safety Department (440) 349-5955