



MATERIAL SAFETY DATA SHEET

WL-20

March 2005

1. PRODUCT IDENTIFICATION

WL-20: Valve lubricant

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

Emergency Contact:
Chemtrec (800) 424-9300

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

2. INGREDIENTS

Table with 4 columns: Ingredients, CAS #, WT%, PEL. Rows include Perfluoro Polyether and Tungsten Disulfide.

3. HEALTH HAZARD INFORMATION

- European Community Danger Group:None
Special Hazards for man or environment:None
LD50 /LC50.....None

Routes of Entry

Table with 5 columns: Skin Contact, Skin Absorption, Eye Contact, Inhalation, Ingestion. Values: No, No, Yes, Yes, Yes.

4. FIRST AID MEASURES

- If inhaled (Overexposure): 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: See Section 5.



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5. FIRE FIGHTING MEASURES

- Suitable extinguishing agents: Carbon dioxide, foam, water, or dry chemical.
- Not suitable for safety reasons: None known.
- Special dangers caused by substance preparation itself, by combustion products or gases formed: Will degrade with prolonged heating above 554°F/290°C or in a fire, liberating carbonyl fluoride and hydrogen fluoride. This gas is toxic if inhaled or it comes in contact with moist skin. Oxides of sulfur and tungsten may be evolved at extremely high temperatures.
- 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 vermiculite or a similar inert absorbent.
- Additional information: None.

7. HANDLING AND STORAGE

- Safety information: None.
- Information on protection from fire or explosion: Keep away from heat, sparks, and flames. Do not store near combustible materials.
- Requirements for storerooms: None.
- Requirements for storage with other substances: None.
- 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 or latex gloves are recommended to minimize exposure.
- Eye protection: Safety glasses or goggles are recommended to minimize exposure.
- Skin protection: Wash hands after use.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Gray Liquid	Odor Light Oil Odor	pH Not Applicable	Density Not Available	Vapor Pressure Not Available
Boiling Point Not Applicable	Melting Point Not Available	Flash Point Not Available	Flammability Not Applicable	Explosive Not Applicable

10. STABILITY AND REACTIVITY

- Conditions to avoid: See Sections 4 and 5.
- Materials to avoid: Strong or non-aqueous alkali above 212°F/100°C, Lewis acids above 212°F/100°C, strong acids, alkali metals, and halogenated compounds.
- Hazardous decomposition products: See Section 5.

11. TOXICOLOGICAL INFORMATION

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

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

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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



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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

- European Community 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.

16. OTHER INFORMATION

- 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-20 information to handle and use the product in a responsible manner.

Preparation Data

Swagelok Environmental and Safety Department (440) 349-5955