

MSDS PWS195
REV. # 2
REV. DATE: Oct 2nd 2008

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product Name: **PWS195 Oil**

Synonyms: PolySiloxane Copolymer

Product Use: Extremely high temperature performance lubricant.

Supplier / Manufacturer: **Permawick Company**
255 E. Brown Street
Suite 100
Birmingham, Michigan 48009
Tel: (810) 433-3500 Fax: (810) 433-1824

Emergency Phone Numbers:

(812) 376-0703 -- Monday - Friday, 8 am – 4:30 pm (EST)
Chemtrec 24 hr.: (800) 424-9300 (US and Canada)

Information Contacts: For technical information contact your sales representative.

Section 2. Composition / Information on Ingredients

Hazardous classification:

HAZARD	CASRN	Percent
1. Siloxane copolymer, TMS terminated polymerized OSHA Hazardous Component: None noted See section 8 for Exposure Guidelines	(By wt.) Proprietary	>95

Section 3. Hazards Identification

******Emergency Overview******

This compound is not an acute or physical hazard under normal conditions of use

Potential Health Effects, Signs and Symptoms of Exposure:

Inhalation: Irritation possible. Fumes from heated material may cause irritation. Sprays or mists may be irritating to the upper respiratory tract.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting.

Eye Contact: Irritating. May cause tearing, reddening, or swelling.

Skin Contact: A single relatively short exposure causes no adverse effect. Several prolonged exposures may irritate. Avoid contact

Other chronic effects: Refer to Section 11, Toxicological Information for details.

MSDS PWS195

REV. # 2

REV. DATE: Oct 2nd 2008

Section 4. First Aid Measures

FIRST AID

Eye Contact: Immediately flush eyes with plenty of water, retracting eyelids often. If irritation develops or persists seek medical attention immediately.

Ingestion: If victim is alert give 3 - 4 glasses water or milk to drink to dilute the product. Call a physician immediately. DO NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. If unconscious, take the affected person to a hospital.

Inhalation: If respiratory irritation or discomfort occur, or if person is overcome by exposure, remove to fresh air immediately. Get medical attention and give oxygen or artificial respiration if necessary.

Skin Contact: Wash affected area immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and wash or discard clothing before reuse. If symptoms occur obtain medical attention immediately.

Medical Conditions Aggravated by Exposure: None noted

Section 5. Fire Fighting Measures

Flash Point, COC,	>285°C	Method used:	ASTM D92
Auto ignition Point:	488°C		
Flammability Classification:	not flammable		
Lower explosive limit	not available	Upper explosive limit:	not available
NFPA rating: Health=1,	Flammability = 0,	Reactivity= 0	

Extinguishing Media: Water spray or fog, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

Section 6. Accidental Release Measures

Spill or Release Procedures:

Ventilate area. Prevent spreading by diking or ditching. Absorb spill with inert material and place in appropriate chemical waste container. Obey any federal, state, and local laws and regulations. Do not flush into sewers discharging into domestic water systems or natural waterways. Use personal protective equipment (Sec.8). Extinguish all sources of ignition. Evacuate area immediately.

MSDS PWS195

REV. # 2

REV. DATE: Oct 2nd 2008

Personnel must be equipped with eye protection before entering the area.
Spilled material will cause a slippery surface. Avoid trips and falls.

Section 7. Handling and Storage

Handling:

Thoroughly wash after handling and before eating, drinking, or using tobacco products.
Use adequate ventilation and avoid breathing vapor or mist. Avoid contact with eyes, skin, clothing. Avoid ingestion.

Storage:

Do not store in open or unlabelled containers.
Keep container tightly closed when not in use and during transport.
Store away from heat, sparks and flames or combustible material.

Section 8. Exposure Controls/Personal Protection

Exposure Limits:

Component Information

OSHA

ACGIH

No data available

Carcinogens:

IARC:None

NTP:None

OSHA:None

Engineering Controls:

Adequate ventilation must be provided. Vapors or mists generated by processing must be vented away from operating personnel. Minimum local exhaust ventilation rate = 50 feet per minute.

Personal Protective Equipment:

Eye/Face Protection: Use chemical splash goggles or ANSI Z.28 approved safety glasses with side shields or equivalent.

Skin Protection: Wear impermeable gloves to minimize skin contact.

Respiratory Protection:

Where exposure is likely to exceed acceptable criteria, use NIOSH/OSHA approved respiratory equipment. Respirators should be selected based on the form and concentration of contaminant in air with OSHA concentration of contaminant in air and in accordance with OSHA (29 CFR 1910.134).

Other Protective Equipment:

In order to identify additional Personal Protective Equipment requirements, the recommendation is made that a hazard assessment in accordance with the OSHA PPE Standard (29 CFR 1910.132) be conducted before product use.

Work Practice controls:

1. Wash exposed skin promptly to remove any material
2. Wash hands and face before consuming food, drinking, or before using tobacco products.

MSDS PWS195

REV. # 2

REV. DATE: Oct 2nd 2008

3. Do not store food, drink, tobacco products in the same area where the product is stored.

Section 9. Physical and Chemical Properties

Boiling Point	:	> 205 °C
Pour Point	:	-40 °C
Vapor Pressure	:	Not determined
Vapor Density (Air = 1)	:	not reported
Specific Gravity	:	1.05
Density	:	see specific gravity
pH	:	Not available
Viscosity	:	195 @ 25 °C 27 @ 100 °C
Evaporation Rate	:	Not available
Solubility in water	:	Insoluble
Appearance and color	:	Colorless clear liquid
Odor	:	Odorless

Section 10. Stability and Reactivity

Stability: Stable under normal storage conditions.

Hazardous Polymerization: Will not occur during normal conditions.

Material Incompatibility:

Hazardous Decomposition Products:

Store away from oxidizers.
At temps greater than 300°C trace amount of benzene may form

Section 11. Toxicological Properties

Inhalation: No testing data available.

Ingestion: No testing data available.

Eye Contact: No testing data available.

Skin Contact: No testing data available.

Chronic Toxicity: No testing data available.

Other Toxicological Information: None available.

Section 12. Ecological Information

Ecological Fate: No data available

Environmental Effects: No data available

MSDS PWS195
REV. # 2
REV. DATE: Oct 2nd 2008

Section 13. Disposal Considerations

Disposal Method: All recovered material should be packaged, labelled, transported, and disposed or reclaimed in accordance with federal, state and local regulations. Incineration in a high temperature incinerator designed to burn fluorine - containing materials is the preferred method.

EPA Hazardous Waste: Not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D).

Section 14. Transportation Information

U.S. Department of Transportation:

DOT proper shipping name:	not regulated
DOT classification:	not regulated

Section 15. Regulatory Information

U.S. Federal Regulations

OSHA:

Preparation of this document is in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

SARA Section 302:

This product contains no chemicals regulated under Section 302 as extremely hazardous substances.

SARA Section 311 / 312:

Hazard classification: none noted.

SARA Section 313:

This product contains no chemical requiring annual Toxic Chemical Release Reporting under Section 313.

TSCA:

Section 8 (b): Inventory:
All functional components of this product are listed in the TSCA inventory .

Section 12 (b): Export Notification:
This product does not contain any substances subject to export notification under Section 12 (b) of TSCA.

CERCLA Hazardous Materials: Not determined.

RCRA: Not determined.

CDSL:

Canadian Inventory
All the chemicals in this product are listed on the DSL. and the Canadian Environmental Protection Act (CEPA) provisional domestic substance list.

MSDS PWS195
REV. # 2
REV. DATE: Oct 2nd 2008

WHMIS:

This product is not a "controlled product" as defined by the Canadian Workplace Hazardous Materials Information System.

State Regulations

California Proposition 65:

This product is not known to contain any chemicals known to the state of California to cause cancer or birth defects. However, we do not conduct routine analysis for all listed materials.

Section 16. Other Information

HMIS Rating System: Health = 01 Flammability = 0 Reactivity = 0
Ratings key: 4 = Highest hazard, 0 = Lowest hazard, * = Chronic Health Hazard

Revision summary:

This is the first issue of this MSDS in the ANSI Z400.1 - 1993 format.

Approval date: 01/29/97

Supersedes: 09/01/89

This information presented herein is believed to be factual as it has been derived from works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as warranty or representation for which Permawick bears legal responsibility. Any recommendations should be reviewed by the user in the specific context of the intended use to determine whether they are appropriate.

ACGIH: American Conference of Governmental Industrial Hygienists
ANSI: American National Standards Institute
CERCLA: Comprehensive Emergency Response, Compensation and Liability Act
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
OSHA: Occupational Health and Safety Administration
NTP: National Toxicology Program
PEL: OSHA Permissible Exposure Limit
RCRA: Resource Conservation and Recovery Act
SARA: Superfund /amendment Reauthorization Act
STEL: Short Term Exposure Limit
TLV: Threshold Limit Values
TSCA: Toxic Substances Control Act