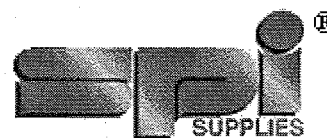


11/2/06

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Material Safety Data Sheet

SPI #01112-XK Welch Duo-Seal® Pump Fluid

Section 01 Identification

Date Effective..... September 15, 2006
(most recent revision)

Chemical Name/Synonyms. Highly Refined Petroleum Lubricant
Oil/DUOSEAL Vacuum Pump Oil

Chemical Family..... Petroleum Oil

Emergencies Contacting CHEMTREC 24 Hour Emergency
Use Only #'s..... Worldwide phone : 1-(703)-527-3887
Worldwide FAX : 1-(703)-741-6090
Toll-free phone : 1-(800)-424-9300 USA only

Product or Trade Name.... SPI #01112-XK Welch Duo-Seal® Pump Fluid

CAS #..... 64741-88-4

Chemical Formula..... Not known



Section 2 Composition

CAS #..... 64741-88-4

This product is not a hazardous chemical(s) under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Hazard Identification

Emergency overview:

Appearance and Odor: light amber liquid with slight petroleum odor

NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS MATERIAL

POTENTIAL HEALTH EFFECTS

Likely Routes of Exposure: skin contact

Occupational exposure to this material has not been reported to cause significant adverse health effects. On the basis of available information, exposure to Welch Duo-Seal® Pump Fluid is not expected to produce significant adverse human health effects when recommended safety precautions are followed.

Eye Contact: Minimal eye irritation may occur on short term contact.

Skin Contact: Mild skin irritant from prolonged or repeated skin contact. Injection of pressurized hydrocarbons under the skin, in the muscle or into the blood stream requires immediate medical attention

Inhalation: Adverse health effects from short-term exposure are not expected to occur. Aspiration of liquid into the lungs can cause severe lung damage or death.

Ingestion: Ingestion of small amounts may have laxative effect. Ingestion of large amounts may cause depression, headache, drowsiness, nausea, diarrhea, vomiting

Chronic Health Effects: Prolonged or repeated skin contact may cause irritation and/or inflammation, dermatitis or oil acne. Repeated or prolonged inhalation may cause respiratory irritation or other pulmonary effects.

Carcinogenic Potential: Does not contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC. Or NTP.

Refer to Section 11 for toxicological information.

Section 4: First Aid Measures

Eye Contact: Flush eyes with cool, clean water for at least 15 minutes. If tearing, redness or pain persists, seek medical attention.

Skin Contact: Remove contaminated clothing. Wash exposed skin with plenty of soap and water. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting unless directed to by a physician. Aspiration of liquid may cause severe lung damage or death. Do not give anything to drink unless directed to by a physician. Do not give anything by mouth to an unconscious person. If large amounts are ingested, or irritation or discomfort occurs, seek medical attention immediately.

Notes to Physician: The viscosity range for this product is 100 to 400 SUS at 100° F. Ingestion presents a low to moderate risk of aspiration. Careful gastric lavage may be considered to evacuate large quantities of material. Subcutaneous or intramuscular injections require prompt surgical debridement.

Section 5: Fire Fighting Measures

Flash Point: 238 °C (480 °F) (Cleveland- open cup)

210 °C (410 °F) (Pensky-Martens ASTM D-93)

Autoignition Temperature: Not available

Fire Point: Not Available

Extinguishing Media: In case of fire, use water spray (fog), foam, dry chemical, or CO2.

Unusual Fire and Explosion Hazards: When heated above its flash point material will release ignitable vapors. In enclosed spaces vapors can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point.

Fire Fighting Equipment: Fire fighters and others exposed to products of combustion must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, smoke fumes, unburned hydrocarbons, and trace oxides of sulfur and nitrogen.

Section 6: Accidental Release Measures

Wear appropriate protective equipment. Slipping hazard - do not walk through spilled material. Stop leak if possible without risk of injury. Absorb small spills or cover with dry earth, sand or other inert non-combustible material and place in waste containers for disposal. This material will float on water and can be absorbed with absorbent pad or similar materials.

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water.

Prevent entry into waterways or sewers. Comply with all laws and regulations.

Refer to Section 13 for disposal information and, Section 15 for reportable quantity information.

Section 7: Handling and Storage

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF MATERIAL FROM EYES, SKIN AND CLOTHING.

Avoid water contamination and extreme temperatures to minimize product degradation

Emptied container retains vapor and product residue. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers or waste residues of this product.

Storage: Product is stable under normal conditions of storage and handling. Keep container closed. Keep away from strong oxidizing agents. Do not store at temperatures above 120 °F or in direct sunlight.

Section 8: Exposure Controls and Personal Protection

An eyewash station and safety shower should be located near the work-station.

Eye Protection: This product does not cause significant eye irritation or eye toxicity requiring special protection; use of safety glasses equipped with side shields should be adequate under most conditions of use. Use chemical splash goggles and/or face shield if splashing or spraying likely or if material is heated above 125 °F(51 °C).

Skin Protection: If frequent or prolonged contact is anticipated, use gloves made of chemical resistant materials such as neoprene or heavy nitrile rubber. Use heat-protective gloves when handling at elevated temperatures.

Protective Clothing: Use clean and impervious protective clothing if splashing or spraying conditions are present. Remove oil-contaminated clothing as soon as possible and launder before reuse. Shower promptly if skin contact occurs. Wear heat protective boots and protective clothing when handling at elevated temperatures.

Respiratory Protection: Avoid breathing mist. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure is excessive. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

Ventilation: Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Airborne Exposure Limits:

Product: Welch Duo-Seal® Pump Fluid

OSHA PEL: None Established
ACGIH TLV: None Established

However, those established for Oil Mist, Mineral are:

TWA: 5 mg/M3 from ACGIH(United States)
STEL: 10 mg/M3 from ACGIH (United States)
TWA: 5 mg/M3 from ACGIH (United States)

Section 9: Physical and Chemical Properties

Appearance: light amber liquid
Odor: mild petroleum odor
Boiling Point not available
Specific Gravity @ 25/25° C: 0.88 (water = 1)
pH: not available
Vapor Density (Air = 1): GT 1
Solubility: insoluble in cold water
Vapor Pressure: 0.01mm of Hg (20 °C)
Density: 7.30 lbs/gal
Viscosity: 339 SUS @ 100 °F (ASTM D2161)
Melting/Freezing Point: not available
Viscosity (cST@40 °C): 65
Volatile Characteristics: Negligible volatility

Section 10: Stability and Reactivity

Product is stable under normal storage and handling conditions.

Materials to Avoid: Exposure to highly oxidizing agents should be avoided.
Do not expose to extreme heat, sparks or open flame.

Hazardous Decomposition Products: No additional hazardous decomposition products were identified other than the combustion products listed in section 5.

Hazardous Polymerization: Not expected to occur.

Section 11: Toxicological Information

Toxicity Data for distillates, petroleum, solvent-refined heavy paraffinic:
Oral(LD50): Acute:>5000 mg/kg (Rat)
DERMAL (LD50) Acute:2000 mg/kg (Rabbit)

Long term studies have shown no carcinogenic effects in any animal species for expos to mineral oil mists from highly refined oils.

The polycyclic aromatic concentration of this mineral oil is below 3.0 weight percent (method IP346).

Section 12: Ecological Information

Exotoxicity: No information found in our selected references.

Environmental Fate: No information found in our selected references.

Bioaccumulation: No information found in our select references.

Section 13: Disposal Considerations

Conditions of use may cause material to become a hazardous waste, as defined by Federal or State regulations. It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Transportation, treatment, storage and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). Contact the RCRA/Superfund Hotline at 800-424-9346 or your regional US EPA office for guidance concerning case specific disposal issues.

Waste product may also be classified as waste oil under state and federal regulations. Any discarded product, whether "hazardous waste" or not, should be incinerated in accordance with all local, state, or federal laws and regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

Section 14: Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

DOT Status:	Not regulated by USDOT as a hazardous material
Proper Shipping Name:	Not regulated
Hazard Class:	Not regulated
Packing Group(s):	Not regulated
UN/NA ID:	Not regulated
Reportable Quantity:	Not established for any of components
Placards:	Not applicable

Emergency Response

Guide No.:	Not applicable
Hazmat STCC No.:	2911990
MARPOL III Status:	Not a DOT "Marine Pollutant" per 49 CFR 171.8

Section 15: Regulatory Information

TSCA Inventory: All components are listed.

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): Not Applicable
Section 313 Toxic Chemical(s): Not Applicable

CERCLA Reportable Quantity: Not Applicable

Refer to Section 2 for OSHA Hazardous Chemical(s) and Section 13 for RCRA classification.

California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

Toluene 0.0008T

New Jersey Right-To-Know Label: Petroleum Oil

CWA: This material is classified as an oil under Section 311 of the CWA and the Oil Pollution Act of 1990 (OPA). Spills or discharges which produce a visible sheen on the waters of the United States or their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at 800-424-8802.

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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Wednesday October 25, 2006

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