

MATERIAL SAFETY DATA SHEET

PEI SUN CHEMICAL CO., LTD

NO.3, LANE 154, CHI.LIN RD.

TEL : (02) 2536-4811 (REP)

TAIPEI, TAIWAN, R.O.C. (10425)

FAX : (02) 2561-4484

Item Number : R-9813

N/D=Not Determined

N/A=Not Applicable

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| SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION | | |
| IDENTITY | PRETON R-9813 | |
| CHEMICAL FAMILY | Rust Preventive Oil | REVISION DATA : 2003/3/7 |
| EMGERGENCY PHONE NO. | TAIPEI (02) 2536-4811 | |

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|-------------------------------------|-----------|------------|---|
| SECTION 2-1 : HAZARDOUS INGREDIENTS | | | |
| HAZARDOUS COMPONENTS | OSHA PEL | ACGIH TLV | % |
| Nothingness | — | — | — |
| SECTION 2-2 : COMPOSITION | | | |
| MAIN CONSIST | CONTENT % | CAS NO. | |
| Fatty acid salt | 1~5 % | 68424-44-2 | |
| Petroleum sulfonate Ca salt | 1~5 % | 61789-86-4 | |
| Synthetic Ester | 1~5 % | 94581-08-5 | |
| Mineral Oil | 90~95 % | 64742-55-8 | |

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| SECTION 3 : HAZARDS IDENTIFICATION | |
| PRIMARY ROUTES OF EXPOSURE : | |
| HEALTH HAZARDS : | |
| SKIN CONTACT | : Prolonged or repeated skin contact may cause irritation. |
| EYE CONTACT | : Causes eye irritation upon contact. |
| INGESTION | : This product has a low order of acute oral toxicity, but small amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury. |
| SIGNS AND SYMPTOMS OF EXPOSURE : Excessive oil mist inhalation may cause dizziness, nausea, and difficulty breathing. | |

SECTION 4 : FIRST AID MEASURES**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE :** Sensitive skin**EMERGENCY AND FIRST AID PROCEDURES :****SKIN CONTACT :** In case of contact, wash skin with warm water and mild soap. Wash clothing before reuse.**EYE CONTACT :** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.**INGESTION :** If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.**SECTION 5 : FIRE FIGHTING MEASURES**

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| FLASH POINT (°C) (Degree Celsius min) | > 160 °C | | |
| FLAMMABLE LIMITS | LEL N/D | UEL N/D | AUTO-IGNITION TEMPERATURE (Degree Celsius min) |
| EXTINGUISHING MEDIA : Dry chemical, carbon dioxide, or foam. Foam may cause frothing or splattering, and should be applied carefully. | | | |
| SPECIAL FIRE FIGHTING PROCEDURE : Water self contain breathing apparatus. Keep fire exposed containers cool with water. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS : Hot vapors form explosive mixture with air. | | | |

SECTION 6 : ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IF MATERIAL RELEASED OR SPILLED :**

In case of spill, evacuate area and secure sources of ignition. Clean up spill immediately. Avoid contamination of sewers and waterways. Wear approved respiratory equipment during cleanup if area is not ventilated adequately. Soak up with sand, earth or other inert material.

SECTION 7 : HANDLING AND STORING**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING :**

Avoid contact with eyes, skin and clothing. Remove contaminated clothing, and launder before reuse. Wash thoroughly after handling. Keep container tightly closed and away from sparks or flames.

OTHER PRECAUTIONS :

Since emptied containers retain-product residue, follow label warnings even after container is emptied.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

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| RESPIRATORY PROTECTION : Not normally required. | |
| VENTILATION : Provide general ventilation and local exhaust sufficient to prevent exceeding exposure limits. | |
| PROTECTIVE GLOVES | Oil impervious to avoid prolonged / repeated contact. |
| EYE PROTECTIVE | Safety glasses or goggles for splash protection. |
| OTHER PROTECTIVE EQUIPMENT | Use as required avoiding prolonged or repeated skin contact. |
| HYGENIC PRACICES : Wash thoroughly before meals, breaks, and at the end of work period. Remove contaminated clothing and launder before reuse. | |

| SECTION 9 : PHYSICAL/CHEMICAL CHARACTERISTICS | | | |
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| BOILING POINT (Degree Celsius min) | N/D | SPECIFIC GRAVITY (WATER=1.0) | 0.88 |
| VAPOR PRESSURE (mm/Hg @ 20°C) | N/D | PERCENT VOLATILE BY VOLUME | N/D |
| VAPOR DENSITY (AIR=1.0) | N/D | MELTING POINT (°C) (Degree Celsius max) | N/D |
| SOLUBILITY IN WATER | N/D | PH (2.5%) | N/D |
| EVAPORATION RATE (n-butyl acetate) | N/D | VISCOSITY (40°C : CST) | 14 |
| APPEARANCE AND ODOR : BROWN CLEAR LIQUID –MILD ODOR | | | |

| SECTION 10 : STABILITY/REACTIVITY | | | | |
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| STABILITY : | Unstable | | Stable | ☉ |
| CONDITIONS TO AVOID : Sparks and open flames | | | | |
| INCOMPATIBILITY : Strong acids and oxidants | | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS : UPON COMBUSTION : Fumes and smoke possibly including CO, CO2. | | | | |
| HAZARDOUS POLYMERIZATION : | May occur | | Will not occur | ☉ |
| CONDITION TO AVOID : None | | | | |

| SECTION 11 : TOXICOLOGICAL INFORMATION | |
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| ORAL TOXICITY | The LD50 in rate is >5G/kg (RAT) |

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| DERMAL SENSITIZATION | Prolonged or repeated skin contact as from clothing wet with material may cause sensitivity. |
| LOCAL EFFICACY | None |
| SPECIAL EFFICACY | None |
| CHRONIC TOXICITY | None |

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| SECTION 12 : ECOLOGICAL INFORMATION | |
| ENVIRONMENTAL TOXICITY: None | |
| ENVIRONMENTAL FATE: None | |

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| SECTION 13: DISPOSAL CONSIDERATION | |
| WASTE DISPOSAL METHODS : | |
| Dispose of in accordance with local and federal regulations. Avoid contamination of sewers and waterways. | |

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| SECTION 14 : TRANSPORT INFORMATION | |
| Not dangerous for conveyance under UN,IMO,ADR/RID and IATA/ICAO codes. | |

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| SECTION 15 : REGULATORY INFORMATION | |
| EC CLASSIFICATION | — |
| EC SYMBOLS | — |
| EC RISK PHRASES | — |
| EC SAFETY PHRASES | — |
| EINECS | — |
| TSCA | — |
| OTHER INFORMATION | — |
| DANGEROUS CONSTITUENTS | — |

SECTION 16 : OTHER INFORMATION

TECHNICAL CONTACT NUMBER

Telephone: 02-25364811

Fax: 02-25614484

TECHNICAL CONTACT ADDRESS:

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WE BELIEVE THE STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE RELIABLE, BUT THEY ARE GIVEN WITHOUT WARRANTY OR GUARANTEE OF ANY KIND, EXPENSE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THEIR USE.

Rust Preventative Oil

PRETON R-9813

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|---|--------------------------------|
| Appearance | Light Brown Liquid |
| Type of the oil | Oil-soluble type |
| Specific gravity (15/4°C) | 0.88 |
| Viscosity (40°C CST) | 14 |
| Flash point (°C) | >160°C |
| Pour point (°C) | <-15°C |
| Chemical reaction | Neutral |
| Packing type | 18L can · 200L drum |
| Salt Water Spraying test (JIS K-2246 5.35) | 48 hours A class (no rusting) |
| Humidity Cabinet test (JIS K-2246 5.34) | 720 hours A class (no rusting) |
| Applications and Characteristics | |
| ※ PRETON R-9813 is a Lubricant rust prevention oil having a strong anticorrosion and excellent rust prevention power. | |
| ※ PRETON R-9813 is suited to the anticorrosion of the press or cutting parts. | |
| COMPOSITION | |
| ※OXINATED PARAFFIN WAX ESTER | ※HIGHER FATTY ACID ESTER |
| ※PETROLEUM SULFONATE Ca SAIT | ※MINERAL OIL |

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