Material Safety Data Sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

AW HYDRAULIC OIL 100

MANUFACTURED FOR: **RELADYNE**

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CAS Registry Number	Not applicable for mixtures
Chemical Family	Petroleum hydrocarbon
Product Type	Premium quality anti-wear hydraulic oil
Preparation/Revision Date	12/2012

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	CAS Number	OSHA PEL	ACGIH TLV	% (Optional)
Petroleum Lubricating Base Stock	64742-54-7	5 mg/m³	5 mg/m³	
Zinc Alkyl Dithophosphate	68649-42-3	NE	NE	

SECTION 3 HAZARDS IDENTIFICATION

Principal Hazard(s)	Contains petroleum oil. Avoid breathing mists or vapors. Avoid prolonged or repeated skin contact.

SECTION 4 FIRST AID MEASURES

Oral	**DO NOT induce vomiting.** Get immediate medical attention
Eye	Flush eye(s) with water for at least 15 minutes or until irritation subsides. Get medical attention if eye irritation develops or persists
Skin	Wash with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before re-use. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.
Inhalation	Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If adverse effects are observed, remove exposed person to fresh air. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If overexposed to oil mist, remove from further exposure until excessive oil mist subsides.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point	240 ºC COC Typical
Upper Flammable Limit	Not Determined
Lower Flammable Limit	Not Determined
Extinguishing Media	Carbon Dioxide, dry chemical, water spray (fog) and foam. Note: water, water fog and foam may cause frothing and spattering.
Special Firefighting Procedures	Wear self-contained breathing apparatus. Avoid breathing fumes and vapors. Use water spray (fog) to cool containers exposed to high heat or open flames.
Unusual Fire and Explosion Hazards	Empty containers contain residue and/or vapors. DO NOT WELD, CUT, PRESSURIZE, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAME, STATIC ELECTRICITY OR OTHER SUCH SOURCES OF IGNITION. Keep empty containers closed and dispose of in an environmentally safe manner and in accordance with all government regulations.
Autoignition Temperature	Not Determined

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures	Evacuate all non-essential personal. Personal Protective Equipment must be worn (see Personal Protection Section for PPE recommendations). Remove sources of ignition. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Assure conformity with applicable Federal, state and local regulations.

SECTION 7 HANDLING AND STORAGE

Handling Procedures	Keep away from potential sources of ignition. Avoid breathing vapors if present. Keep containers closed when not in use. Wash thoroughly after handling. Make sure that proper warning labels are affixed in accordance with 29 CFR 1910.1200. Use good personal hygiene around product. Do not smoke or eat around product.
Storage Procedures	Do not store near potential sources of ignition. Store in a well ventilated area. Store in a dry area. Do not store around food or eating areas.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Procedures	Use material in well ventilated areas only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
Glove Protection	Use chemical resistant gloves, if needed, to avoid prolonged or repeated skin contact.
Eye Protection	Safety glasses recommended. Use splash goggles or face shield when eye contact may occur.
Respiratory Protection	Under normal conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded.
Clothing Recommendation	Use a chemical resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown colored liquid	**Vapor Pressure**	Not Determined
Specific Gravity	0.88	**Vapor Density (Air = 1)**	Greater than 5
Viscosity	Approx 100 cSt @ 40 ºC	**Evaporation Rate**	Not Determined
Odor	Typical oil odor	**Pour or Melting Point**	-20 ºF
pH	Essentially neutral	**Boiling Point**	IBP approximately 600 ºF
Odor Threshold	Not Determined	**Percent Volatile**	Not Determined
Water Solubility	Negligible	**Molecular Weight**	Not Determined

SECTION 10 STABILITY AND REACTIVITY

Stability	Material is normally stable at room temperature and pressure. See the **Handling and Storage Section** for further details.
Incompatibility	Strong oxidizing agents.
Hazardous Polymerization	Will not occur.
Thermal Decomposition	Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral Toxicity	Not Determined.
Eye Irritation	Product contacting eyes may cause eye irritation.
Skin Irritation	May cause skin irritation. Prolonged or repeated contact may cause dermatitis. Symptoms may include redness, edema, drying, defatting and cracking of skin.
Dermal Toxicity	Not Determined.
Inhalation Toxicity	Not Determined.
Respiratory Irritation	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
Dermal Sensitivity	No data available to indicate product or components may be skin sensitizer.
Inhalation Sensitivity	No data given to indicate product or components may be respiratory sensitizer.
Chronic Toxicity	Not Determined.
Carcinogenciity	The components of this product has not been found to be a carcinogen under either NTP, IARC Monographs or current OSHA regulations.
Other	Under conditions which may generate mists, observe the OSHA PEL 5 mg/m³.

SECTION 12 ECOLOGICAL INFORMATION

No Data Given.	

SECTION 13 DISPOSAL CONSIDERATIONS

U. S. DOT Shipping Name	Not regulated by DOT
Hazard Class	Not applicable
DOT Identification Number	Not applicable
DOT Shipping Label	Not regulated by DOT

SECTION 14 WASTE DISPOSAL INFORMATION

WASTE DISPOSAL	This product is not considered a hazardous waste under RCRA regulations. After use, it is the responsibility of the user to determine the products status for disposal. This product can be incinerated, if practical, or recycled.

SECTION 15 REGULATORY INFORMATION

U. S. TSCA Inventory	All components of this product are listed on the TSCA Inventory.
SARA 302 Threshold Planning Quantity	No RQ for product or any constituent greater than 1.0% or 0.1% (carcinogen).
SARA 304 Reportable Qty	No RQ for product or any constituent greater than 1.0% or 0.1% (carcinogen).
SARA 311 Categories	**EPA Hazard Classification Code**

Acute	Chronic	Fire	Pressure	Reactivity
No	No	No	No	No

SARA 313 Supplier Notification	This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substances) of any chemical substances listed under SARA Section 313.
CERCLA Hazardous Substances	No chemicals in this product are subject to the reporting requirements of CERCLA.

SECTION 16 OTHER INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

HEALTH = 1 FIRE = 1 REACTIVITY = 0 PP = B

Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme

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