MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING

HEALTH	1
FIRE	1
REACTIVITY	0
PERSONAL PROTECTION	X

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SECTION I: PRODUCT IDENTIFICATION

Product Name: **TECTYL 940E**
Chemical Family: Petroleum Based Lubricating Oil

SECTION II: COMPOSITION / INFORMATION ON INGREDIENTS

This material has no known hazards under applicable laws.

SECTION III: HAZARDS IDENTIFICATION

This material has no known health hazards.

SECTION IV: FIRST AID MEASURES

Eyes: If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.
Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.
Swallowing: DO NOT INDUCE VOMITING. This material is an aspiration hazard. If individual is drowsy or unconscious, place on left side with the head down. Seek medical attention. If possible, do not leave individual unattended.
Inhalation: If symptoms develop, immediately move individual away from exposure and into fresh air. If symptoms persist seek immediate medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
Note to Physicians: Treat symptomatically.

SECTION V: FIRE FIGHTING MEASURES

Flash Point: 383 ^{o}F (195 ^{o}C) PMCC typical
Explosive Limit: (for component) No data.
Auto ignition Temperature: No Data.
Hazardous Products of Combustion: May form carbon dioxide and carbon monoxide, sulfur compounds, various hydrocarbons.
Fire and Explosion Hazards: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Dense smoke may be generated while burning.
Extinguishing media: regular foam, carbon dioxide, dry chemical.
Fire Fighting Instructions: Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Small Spills: Absorb liquid on vermiculite, floor absorbent or other absorbent material.
Large Spill: Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

SECTION VII: HANDLING AND STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.
Storage: Not Applicable.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear safety glasses in compliance with OSHA regulations. Consult your safety representative.
Skin Protection: Wear resistant gloves such as, – neoprene. Wear normal work clothing covering arms and legs.
Respiratory Protections: If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.
Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV's).

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not determined
Vapor Pressure:	Not determined
Specific Vapor Density:	>1.000 @ AIR=1
Specific Gravity:	.88 @ 77 ^{o}F
Liquid Density:	7.31 lbs/gal @ 77 ^{o}F (.897 kg/l @ 25 ^{o}C)
Percent Volatiles: (including water)	No Data
Evaporation Rate:	Slower than ethyl ether
Appearance:	Translucent
State:	Liquid
Physical Form:	Homo Soln
Color:	Amber
Odor:	No Data
pH:	Not Applicable

SECTION X: STABILITY AND REACTIVITY

Hazardous Polymerization: Product will not undergo hazardous polymerization.
Hazardous Decomposition: May form: carbon dioxide and carbon monoxide, various hydrocarbons.
Chemical Stability: Stable
Incompatibility: Avoid contact with strong oxidizing agents.

SECTION XI: TOXICOLOGICAL INFORMATION

Oral Toxicity: The LD50 in rats is >5000 mg/kg. Based on data from components or similar materials.
Eye Irritation: Not expected to cause eye irritation. Based on data from components or similar materials.
Skin Irritation: Not expected to he a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
Dermal Toxicity: The LD50 in rabbits is> 2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity: Not expected to be a toxic inhalation hazard. Based on data available from components or similar materials.
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 similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.
Dermal Sensitization: No data available to indicate product or components may he a skin sensitizer.
Inhalation Sensitization: No data available to indicate product or components may be respiratory sensitizers.
Chronic Toxicity: No data available to indicate product or components present at greater than 1% are chronic health hazards.
Carcinogenicity: This material is formulated with mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity: No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity: No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
Other: No other health hazards known.
Exposure Limits: Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per

cubic meter. ACGIH STEL of 10mg per cubic meter.

SECTION XII: ECOLOGICAL INFORMATION

- - ENVIRONMENTAL TOXICITY- -

Freshwater Fish Toxicity: The acute EC50 for freshwater fish is 100- 1000 ppm based on component data.
Freshwater Invertebrates: The acute EC50 for freshwater invertebrates is 100- 1000 ppm based **toxicity:** on component data. Chronic effects for freshwater invertebrates expected at 100-1000 ppm based on component data.

Algal Inhibition: The acute EC50 is 100-1000 mg/L based on component data.
Saltwater Fish Toxicity: Not determined.
Saltwater Invertebrates toxicity: Not determined.
Bacteria Toxicity: The acute EC50 for bacteria is 100- 1000 ppm based on component data.
Miscellaneous Toxicity: Not determined.

- - ENVIRONMENTAL FATE - -

Biodegradation: At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data. At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.
Bioaccumulation: Less than 1.0% of the components potentially bioconcentrate, based on octanol/water coefficients.
Soil Mobility: Not determined.

SECTION XIII: DISPOSAL CONSIDERATION

Waste Management Information: Dispose of in accordance with all applicable local, state and federal regulations.

SECTION XIV: TRANSPORT INFORMATION

DOT Information – 49 CFR 172.101

DOT Description: Not Regulated

NOS Component: None

RQ (Reportable Quantity) – 49 CFR 172.101: Not Applicable

SECTION XV: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values) Not Determined

U.S. TSCA INVENTORY	All components of this material are on the US TSCA Inventory or are exempt.
CANADA:	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
SWITZERLAND:	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
KOREA:	All components are in compliance in Korea.
PHILIPPINES:	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

CHINA: All components of this product are listed on the Inventory of Existing Chemical Substances in China.

SARA TITLE III:

This product contains the following TOXIC CHEMICALS subject to the Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40 CFR Part 372:

Chemical	CAS No.	Wt%
Zinc Compounds		0.5-1.5 (0.1% as Zn)

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to Emergency Planning Requirements under Sec. 301-303 (40 CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:

Chemical	CAS No.	Wt%	RQ/TPQ Lbs
NONE			

This product contains the following (CERCLA LIST) HAZARDOUS SUBSTANCE(S) subject to Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):

Chemical	CAS No.	Wt%	Final RQ Lbs
NONE			

CALIFORNIA PROPOSITION 65:

This product may contain trace quantities of the following chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

Chemical	CAS No.	Estimated Concentration %
Arsenic, Lead, Cadmium		<1 ppm

SECTION XVI: OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.