

# MATERIAL SAFETY DATA SHEET

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## HMIS HAZARD RATING

Health	1
Fire	2
Reactivity	0
Personal Protection	D

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## SECTION 1: PRODUCT IDENTIFICATION

Product Name: **TECTYL® 282**  
General or Generic ID: PETROLEUM BASED RUST PREVENTATIVE

## SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Petroleum Lube Oil CAS #64742-65-0	75-85	OSHA PEL: 5 mg/m <sup>3</sup> (oil mist) ACGIH TLV: 5 mg/m <sup>3</sup> (oil mist)
Zinc Dinonylnaphthalenesulfonate CAS #28016-00-4	1-10	OSHA PEL: None Established ACGIH TLV: None Established
Calcium Dinonylnaphthalenesulfonate CAS #57855-77-3	1-10	OSHA PEL: None Established ACIGH TLV: None Established
Ethylene Glycol Monobutyl Ether CAS #111-76-2	1-10	OSHA PEL: 25 ppm ACIGH TLV: 25 ppm

## SECTION 3: HEALTH HAZARD INFORMATION

**Eye:** Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

**Skin:** Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

**Swallowing:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

**Inhalation:** Breathing of vapor or mist is possible.

**Symptoms of Exposure:** stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways)

**Target Organ Effects:** Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: blood abnormalities, liver abnormalities, anemia, spleen damage, testis damage, kidney damage, lung damage.

**Developmental Information:** This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

**Cancer Information:** No data

**Other Health Effects:** No data

**Primary Route(s) of Entry:** Inhalation, Skin absorption, Skin contact.

#### SECTION 4: FIRST AID PROCEDURES

**Eyes:** If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate 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. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

**Note to Physicians:** No data

#### SECTION 5: FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** > 185 °F (85 °C) PMCC

**Explosive Limit:** (for component) Lower 1.1 Upper 10.6

**Autoignition Temperature:** No data

**Hazardous Products of Combustion:** May form: carbon dioxide and carbon monoxide.

**Fire and Explosion Hazards:** Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**Extinguishing Media:** Regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions:** Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece 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 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

**Small Spill:** Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

**Large Spill:** Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. 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.

## SECTION 7: SAFE HANDLING INFORMATION

**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. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred.

**Storage:** Not applicable

## SECTION 8: EXPOSURE CONTROLS

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Skin Protection:** Wear resistant gloves such as: neoprene. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory Protections:** If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), 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 9: REACTIVITY HAZARD DATA

**Hazardous Polymerization:** Product will not undergo hazardous polymerization.

**Hazardous Decomposition:** May form: carbon dioxide and carbon monoxide.

**Chemical Stability:** Stable.

**Incompatibility:** Avoid contact with: strong oxidizing agents.

## SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point (for component):</b>	> 425 °F (218.3 °C) @ 760 mmHg
<b>Vapor Pressure (for component):</b>	.66 mmHg @ 68 °F
<b>Specific Vapor Density:</b>	No data
<b>Specific Gravity:</b>	.89 @ 77 °F
<b>Liquid Density:</b>	7.4 lbs/gal @ 77 °F
<b>Percent Volatiles (Including Water):</b>	5
<b>Evaporation Rate:</b>	SLOWER THAN ETHYL ETHER
<b>Appearance:</b>	No data
<b>State:</b>	LIQUID
<b>Physical Form:</b>	No data
<b>Color:</b>	No data
<b>Odor:</b>	No data
<b>pH:</b>	No data

## SECTION 11: DISPOSAL CONSIDERATIONS

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

**SECTION 12: REGULATORY INFORMATION**

**Volatile Organic Content: (Calculated Values)**

VOC per gallon: 0.37 lbs/gal

**EPA Hazardous Waste Number(s) (40 CFR Part 261):**

Not Applicable

**EPA Hazard Category (40 CFR Part 370):**

IMMEDIATE (ACUTE)  
DELAYED (CHRONIC)  
FIRE

**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%
Ethylene Glycol Monobutyl Ether	111-76-2	4.5
Zinc Compounds	7440-66-6	1-10

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 %
NONE		

**WHMIS CLASSIFICATION: B3, D2B**

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.