

MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING

HEALTH	1
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	X

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By: R. Lauterbach

SECTION I: CHEMICAL IDENTIFICATION

Product Name: **TECTYL® 506 EH WD**
General or Generic ID: Petroleum Based Rust Preventive

SECTION II: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Calcium Salt of Oxidized Petrolatum CAS #68425-34-3	55-65	None Established
Aliphatic Hydrocarbons (Stoddard Type) CAS #8052-41-3	35-65	OSHA PEL: 100 ppm ACGIH TLV: 100 ppm
Ethylene Glycol Monobutyl Ether CAS #111-76-2	1-7	OSHA PEL: 25 ppm (skin) ACGIH TLV: 25 ppm (skin)

SECTION III: HAZARDS IDENTIFICATION

Eyes: Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin: May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, and skin contact may be harmful.

Swallowing: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

Inhalation: Breathing of vapor or mist is possible. Breathing this material may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), difficult breathing, blood in the urine, blood abnormalities (breakage of red blood cells), kidney damage, liver damage, coma, and death.

Target Organ Effects: Acute lethal exposure to ethylene glycol monobutyl ether in animal studies has resulted in congestion of organs including kidney, spleen, and lung. 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: mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities, and anemia.

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: Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by IARC, NTP or 051-IA.

Other Health Effects: No data

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

SECTION IV: FIRST AID MEASURES

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: Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes. Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. 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: This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), liver, kidneys, blood-forming system.

SECTION V: FIRE FIGHTING MEASURES

Flash Point: 106 °F (41.1 °C) PMCC

Explosive Limit: (for component) Lower 1.0 Upper 10.6

Autoignition Temperature: No data

Hazardous Products of Combustion: May form: aldehydes, calcium oxide, carbon dioxide and carbon monoxide, silicon oxides, various hydrocarbons.

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 VI: ACCIDENTAL RELEASE MEASURES

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.

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. 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: Do not store near extreme heat, open flame, or sources of ignition.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

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, nitrile rubber. 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 IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: (for product)	300 °F (148.8 °C) @ 760 mmHg
Vapor Pressure: (for component)	2 mmHg
Specific Vapor Density:	No data
Specific Gravity:	.900 @ 60 °F
Liquid Density:	7.5 lbs/gal @ 77 °F (.9 Kg/l @ 15.6 °C)
Percent Volatiles (Including Water):	39 - 41.5
Volatile Organic Compounds (VOC) (Calculated):	377 g/l 3.15 lbs/gal
Evaporation Rate:	Slower Than Ethyl Ether
Appearance:	Non-Grainy
State:	Liquid
Physical Form:	No data
Color:	No data
Odor:	No data
pH:	Not applicable

SECTION X: STABILITY AND REACTIVITY

Hazardous Polymerization: Product will not undergo hazardous Polymerization.

Chemical Stability: Stable.

Incompatibility: Avoid contact with: heat, strong acids, strong oxidizing agents.

SECTION XI: TOXICOLOGICAL INFORMATION

None known.

SECTION XII: ECOLOGICAL INFORMATION

None known.

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
Container/Mode:	DRUMS/SURFACE - NO EXEMPTIONS
NOS Component:	PETROLEUM NAPHTHA

RQ (Reportable Quantity) - 49 CFR 172.101: Not applicable

TDG (Transportation of Dangerous Goods): UN1993, Flammable liquid, N.O.S., (Naphtha Solvent), 3, PG III

SECTION XV: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per Gallon: 3.15 lbs/gal

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

EPA Hazard Category (40 CFR Part 370): DELAYED (CHRONIC)
IMMEDIATE (ACUTE)

CANADIAN DSL STATUS:

All ingredients on Canadian DSL list

WHMIS Classification:

B3, D1A, D2B

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%
NONE		

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 contains 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.	Wt%	Final RQ Lbs
NONE			

SECTION XVI: OTHER INFORMATION

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.