

MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING

Health	1
Fire	2
Reactivity	0
Personal Protection	D

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By: R. Lauterbach

SECTION I: PRODUCT IDENTIFICATION

Product Name: **TECTYL® 300**
General or Generic ID: Water Borne-Rust Preventive

SECTION II: HAZAROUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Ethylene Glycol Monobutyl Ether CAS #111-76-2	4-14	OSHA PEL: 25 ppm (skin) ACGIH TLV: 25 ppm (skin)
Secondary Butanol CAS #78-92-2	4-14	OSHA PEL: 100 ppm ACGIH TLV: 100 ppm
Ammonium Hydroxide CAS #1336-21-6	1-4	OSHA PEL: 25 ppm ACGIH TLV: 25 ppm

SECTION III: HAZARDS IDENTIFICATION

Eye: Exposure causes eye irritation. Symptoms may include stinging, tearing, redness, and swelling.

Skin: Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, skin burns and skin damage. Pre-existing skin disorders may be aggravated by exposure to this material. Skin absorption is possible, and may contribute to symptoms of toxicity from other routes of exposure.

Swallowing: Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.

Inhalation: Exposure to vapor or mist is possible. Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful.

Symptoms of Exposure: Gastrointestinal irritation (nausea, vomiting, diarrhea) irritation (nose, throat, respiratory tract) (pre-existing lung disorders, e.g. asthma-like conditions, may be aggravated by exposure to this material), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), and death.

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, eye 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 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: If swallowed, 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. If individual is conscious and alert, induce vomiting by giving syrup of ipecac or by gently placing two fingers at the back of the throat. If possible, do not leave individual unattended.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians: No data

SECTION V: FIRE FIGHTING MEASURES

Flash Point: 104 °F (40 °C) PMCC

Explosive Limit: (for component) Lower 1.1 %

Autoignition Temperature: No data

Hazardous Products of Combustion: May form: carbon dioxide and carbon monoxide, 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: alcohol foam, water fog.

Fire Fighting Instructions: Water may be used to keep fire-exposed containers cool until fire is out. Water may be used to extinguish fire by cooling, and diluting liquid with water. 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.

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 run-off 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 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: Not applicable

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: nitrile rubber. Wear normal work clothing covering arms and legs.

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 level of overexposure (from known, suspected or apparent adverse effects).

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point(for component)	212 °F (100 °C) @ 760 mmHg
Vapor Pressure(for component)	17.5 mmHg @ 68 °F
Specific Vapor Density	>1 @ AIR=1
Specific Gravity	.998 @ 77 °F
Liquid Density	8.4 lbs/gal @ 77 °F
	.998 Kg/l @ 25 °C
Percent Volatiles	70 - 85 %
Evaporation Rate	SLOWER THAN ETHYL ETHER
Appearance	No data
State	LIQUID
Physical Form	No data
Color	CLEAR
Odor	No data
pH	8.5

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 alkalis, strong mineral acids.

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:	SECONDARY BUTANOL NORMAL BUTANOL

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

***** EXPORT HAZ MAT DESCRIPTON *****

PETROLEUM DISTILLATES N.O.S., (Naphtha Solvent), 3, UN1268, PGIII

SECTION XV: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per gallon: 1.25 lbs./gal
VOC per gallon minus exempt solvents and water: 3.2 lbs./gal

TSCA (Toxic Substances Control Act): All intentional ingredients are listed

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	4-14
Sec-Butyl Alcohol	78-92-2	1.57
Ammonium Hydroxide	1336-21-6	1-4
Cobalt Compounds	7440-48-4	<0.5

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		

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.