

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: PRODUCT IDENTIFICATION

Product Name: **Tectyl® 502C Class I (MIL-C-16173 Class 2 Grade 1)**
Chemical Family: Petroleum Based Rust Preventative

SECTION II: HAZARDS IDENTIFICATION

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

Skin: Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects).

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

Symptoms of Exposure: Stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), 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 humans and may aggravate pre-existing disorders of these organs: Central nervous system effects.

Developmental Information: No Data.

Cancer Information: No Data.

Other Health Effects: No Data.

Primary Route(s) of Entry: Inhalation, skin contact.

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Aliphatic Hydrocarbons (Stoddard Type) CAS #8052-41-3	32-42	OSHA PEL: 100 ppm ACGIH TLV: 100 ppm

Component	Wt%	Recommended Exposure Limits (TWA)
Zinc Soap CAS #68918-69-4	20-30	OSHA PEL: None Established ACGIH TLV: None Established
Petrolatum CAS #8009-03-8	5-15	OSHA PEL: None Established ACGIH TLV: None Established
Hydrotreated Heavy Naphthenic Distillate CAS #64742-52-5	10-20	OSHA PEL: 5 mg/m ³ ACGIH TLV: 5 mg/m ³
Petroleum Sulfonate CAS #78330-12-8	6-11	OSHA PEL: None Established ACGIH TLV: None Established

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. 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 V: FIRE FIGHTING MEASURES

Flash Point: 106 °F (41.1 °C) PMCC

Explosive Limit: (for component) Lower 1.0 Upper 6.0%

Auto ignition Temperature: No Data.

Hazardous Products of Combustion: May form carbon dioxide and carbon monoxide, sulfur compounds, 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 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: 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. 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 from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required.

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,– neoprene, nitrile rubber. 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:	315 °F (157.2 °C)
Vapor Pressure:	2 mmHg
Specific Vapor Density:	>1.000 @ AIR=1
Specific Gravity:	.88 @ 77 °F
Liquid Density:	7.16 lbs/gal @ 77 °F (.88 kg/l @ 25 °C)
Percent Volatiles (including water):	40 %
VOC's:	2.9 lbs/gal
Evaporation Rate:	Slower than ethyl ether
Appearance:	Translucent
State:	Liquid
Physical Form:	No Data
Color:	Amber
Odor:	No Data
pH:	No Data

SECTION X: STABILITY AND REACTIVITY

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Hazardous Decomposition: May form: carbon dioxide and carbon monoxide, sulfur compounds, various hydrocarbons.

Chemical Stability: Stable

Incompatibility: Avoid contact with 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:	Combustible liquid, N.O.S., III
Container/Mode:	Drums/Surface – No Exemptions
NOS Component:	None
RQ (Reportable Quantity) – 49 CFR 172.101:	Not Applicable

WHMIS CLASSIFICATION: B3, D2B

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

UN1993, FLAMMABLE LIQUIDS N.O.S., (Naphtha Solvent), 3, PGIII

SECTION XV: REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status
TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ – 40 CFR 302.4: None

SARA 302 Components – 40 CFR Appendix A: NONE

Section 311/312 Hazard Class – 40 CFR 370.2
Immediate (X) Delayed () Fire (X) Reactive () Sudden Release of Pressure ()

Sara 313 Components – 40 CFR 372.65

Section 313 Component(s)	CAS Number	Max. %
Zinc Compounds	7440-66-6	20-30

International Regulations

Inventory Status

ACOIN (AUSTRALIA) – The intentional ingredients of this product are listed.

DSL (CANADA) – The intentional ingredients of this product are listed.

EINECS (EUROPE) – The intentional ingredients of this product are listed.

ENCS (JAPAN) – The intentional ingredients of this product are listed.

State and Local Regulations

California Proposition 65: NONE

New Jersey RTK Label Information: Stoddard Solvent 8052-41-3

Pennsylvania RTK Label Information: Stoddard Solvent 8052-41-3

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.