

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® 1420 HAPS FREE BLACK**
Chemical Family: Water based rust preventative

SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Water CAS #7732-18-5	46-56	None Established
Propylene Glycol Monopropyl Ether CAS #1569-01-3	1.2-11	None Established
Secondary Butanol CAS #78-92-2	4.5-5.5	OSHA PEL: 100 ppm ACGIH TLV: 100 ppm
Normal Butanol CAS #71-36-3	2-3	OSHA PEL: 50 ppm Ceiling (skin) ACGIH TLV: 50 ppm Ceiling (skin)
Dimethylethanolamine CAS #108-01-0	1-7	None Established
^[1] Carbon Black CAS #1333-86-4	1-7	ACGIH TLV: 3.5 mg/m ³ OSHA PEL: 3.5 mg/m ³ (^[2] nuisance dust)

^[1] See Section 3

^[2] This component poses a hazard only if a dust is formed, i.e., by sawing, sanding, drilling, etc.

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. 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 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: metallic taste, mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways) cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), visual disturbances, low blood pressure, pain in the abdomen and lower back, blurred vision, shortness of breath, difficult breathing, kidney damage, liver damage, coma.

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 preexisting disorders of these organs in humans: mild, reversible liver effects, liver abnormalities, anemia, spleen damage, testis damage, eye damage, kidney damage, lung damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate preexisting disorders of these organs: anemia, effects on hearing, eye 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. Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

Cancer Information: Carbon Black has been classified by IARC as a Category 2B (known animal carcinogen, possible human carcinogen) material. This was based on the results of rat inhalation studies of carbon black, despite the lack of parallel evidence on humans or other animal species.

Other Health Effects: No data

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

SECTION 4: FIRST AID PROCEDURES

Eye: 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, 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.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 105 °F (40.5 °C) PMCC

Explosive Limit: (for component) Lower 1.3 Upper 16.9

Autoignition Temperature: No data

Hazardous Products of Combustion: May form: carbon dioxide and carbon monoxide, nitrogen 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: 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 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Small Spill: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. 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 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: Do not store near extreme heat, open flame, or sources of ignition.

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 (consult your safety equipment supplier). 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 level of overexposure (from known, suspected or apparent adverse effects).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	(for component) 211 °F (99.4 °C)
Vapor Pressure:	(for component) 17.5 mmHg
Specific Vapor Density:	No data
Specific Gravity:	1.02 @ 60 °F
Liquid Density:	8.4 lbs/gal @ 77 °F (1.02 Kg/l @ 15.6 °C)
Percent Volatiles (Including Water):	65 - 71 %
Evaporation Rate:	SLOWER THAN ETHYL ETHER
Appearance:	No data
State:	LIQUID
Physical Form:	No data
Color:	BLACK
Odor:	No data
pH:	8.4 - 8.8
Viscosity:	35 - 40 sec @ #3 CUP @ 77 °F

SECTION 10: REACTIVITY HAZARD DATA

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Hazardous Decomposition: May form: carbon dioxide and carbon monoxide, nitrogen oxides, various hydrocarbons.

Chemical Stability: Stable.

Incompatibility: Avoid contact with: strong alkalis, strong mineral acids.

SECTION 11: TOXICOLOGICAL INFORMATION

None known.

SECTION 12: ECOLOGICAL INFORMATION

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced. Consider recycling solvent.

SECTION 14: TRANSPORTATION INFORMATION

***** EXPORT AND AIR TRANSPORTATION *****

Totes and Tankers

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

Domestic by Ground (Pails, Kegs, Drums): Non-Regulated

SECTION 15: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per gallon: 2.8 lbs/gal

VOC per gallon minus exempt solvents & water: 2.8 lbs/gal

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

EPA Hazard Category (40 CFR Part 370):

DELAYED (CHRONIC)

IMMEDIATE (ACUTE)

FIRE (FLAMMABLE)

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%
Sec-Butyl Alcohol	78-92-2	4.5-5.5
N-Butyl Alcohol	71-36-3	2-3

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 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.

SECTION 16: 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.