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 I: PRODUCT IDENTIFICATION

Product Name: **TECTYL® 300G BLACK 3.4**
General or Generic ID: Water-Based Rust Preventive

SECTION II: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Wt. %	Recommended Exposure Limits
Water CAS #7732-18-5	53-63	None Established
Ethylene Glycol Monobutyl Ether CAS #111-76-2	6-16	OSHA PEL: 25 ppm TWA (skin) ACGIH TLV: 25 ppm TWA (skin)
Pigment Dispersion CAS #1333-86-4	1-8	OSHA PEL: 3.5 mg/m^3 - TWA ACGIH TLV: 3.5 mg/m^3 - TWA
Ethylene Glycol Monopropyl Ether CAS #2807-30-9	1-7	None Established
Secondary Butanol CAS #78-92-2	1-5	OSHA PEL: 100 ppm - TWA ACGIH TLV: 100 ppm - TWA
Normal Butanol CAS #71-36-3	1-5	OSHA PEL: 50 ppm - ceiling (skin) ACGIH TLV: 50 ppm - ceiling (skin)
Ammonium Hydroxide CAS #1336-21-6	<1	OSHA PEL: 35 ppm ACGIH TLV: 35 ppm

SECTION III: HAZARDS IDENTIFICATION

Eye: May cause mild eye irritation. Symptoms include stinging, tearing, and redness.
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, but it is unlikely that this would result in harmful effects during safe handling and use.
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. 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: 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, 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: Carbon black has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. It is listed as a carcinogen by The International Agency for Research on Cancer. Epidemiological studies of the incidence of cancer, cardiovascular or respiratory disease in workers in the carbon black producing industry have shown no significant health effects due to occupational exposure to carbon black. Ethylene glycol monobutyl ether has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain.
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: 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, 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: > 106 ^{o}F (41.1^{o}C) PMCC
Explosive Limit (for component): Lower 1.1 Upper 15.8
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 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: 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.

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. 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 component):	211 ^{o}F (99.4 ^{o}C)
Vapor Pressure (for component):	17.5 mmHg
Specific Vapor Density:	No data
Specific Gravity:	1.01 @ 60 ^{o}F
Liquid Density:	8.5 lbs/gal @ 60 ^{o}F
	1.01 Kg/l @ 15.6 ^{o}C
Percent Volatiles (Including Water):	73 - 77
Volatile Organic Compounds (VOC) (Calculated):	407 g/1
	3.4 lbs/gal
Evaporation Rate:	SLOWER THAN ETHYL ETHER
Appearance:	No data
State:	LIQUID
Physical Form:	No data
Color:	BLACK
Odor:	No data
pH:	8.5 - 8.8
Viscosity:	40 – 45 sec @ #3 CUP @ 77 ^{o}F

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 mineral acids.

SECTION XI: DISPOSAL CONSIDERATION

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

SECTION XII: TRANSPORT INFORMATION

DOT Information - 49 CFR 112.101

DOT Description: Not Regulated
Container/Mode: DRUMS/SURFACE - NO EXCEPTIONS
NOS Component: SECONDARY BUTANOL
NORMAL BUTANOL

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs)	Component
31075	AMMONIA

SECTION XIII: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per gallon: 3.74 lbs. /gal
EPA Hazardous Waste Number(s) (40CFR Part 261): N/A
EPA Hazard Category (40CFR Part 370): IMMEDIATE (ACUTE)
DELAYED (CHRONIC)
FIRE (COMBUSTIBLE)

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 40CFR Part 372:*

CHEMICAL	CAS NO.	WT %
Ethylene Glycol Monobutyl Ether	111-76-2	6-16
Ethylene Glycol Monopropyl Ether	2807-30-9	1-7
Sec-Butyl Alcohol	78-92-2	1-5
N-Butyl Alcohol	71-36-3	1-5

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to the *Emergency Planning Requirements under Sec. 301-303 (40CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:*

CHEMICAL	CAS NO.	WT %	RQ/TPQ Lbs
NONE			

(CERCLA LIST) This product contains the following HAZARDOUS SUBSTANCE(S) subject to *Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302)*:

CHEMICAL	CAS NO.	WT %	Final RQ Lbs
N-Butyl Alcohol	71-36-3	1-5	5000
Ammonium Hydroxide	1336-21-6	1-5	1000

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		

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.