MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING

HEALTH	0
FIRE	1
REACTIVITY	0
PERSONAL PROTECTION	D

Date of Review: Date of Revision: September 17, 2010
Date of Preparation: August 7, 2008 By: M. Longo

SECTION I: PRODUCT IDENTIFICATION

Product Name: **TECTYL® 1771**
Chemical Family: Water, Additive Blend
Material Usage: Corrosion Preventive

EMERGENCY OVERVIEW: Water-based product. Alkaline liquid; may be irritating to eyes and skin. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION II: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Calcium Sulfonates CAS #68783-96-0	11	OSHA PEL: None established
[1]Dimethyl Amino Ethanol CAS #108-01-0	1-3	None Established
Petroleum Oil (Severely solvent refined and/or severely hydrotreated) CAS #64742-65-0	5-7	OSHA PEL5 mg/m^3 (oil mist) ACGIH TLV: 5 mg/m^3 (oil mists)
Conjugated Linoleic Acids CAS #11250-47-3	4-6	OSHA PEL: 5 mg/m^3 (mist) ACGIH TLV: 5 mg/m^3 (mist)
Polyethylene CAS #9002-88-4	8-10	OSHA PEL: 15 mg/m^3 (dust) ACGIH TLV: 10 mg/m^3 (inhalable particles)
Surfactant Blend CAS #56-81-5	4-6	OSHA PEL: 10 mg/m^3 (mist) ACGIH TLV: 10 mg/m^3 (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 III: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Skin absorption, inhalation.
Acute Effects: May cause severe eye irritation and reversible skin irritation. Prolonged skin exposure may cause dermatitis or oil acne. Breathing mists may cause pulmonary irritation or dizziness. Excessive inhalation may produce dizziness, nausea, headache, and incoordination.
Chronic Effects: Exposure to relatively high dimethylaminoethanol vapor concentrations may cause minor transient edema of the corneal epithelium. This condition, referred to as "glaucopsia," "blue haze," or "blue-gray haze," produces a blurring of vision against a general bluish haze and the appearance of halos around bright objects. The effect disappears spontaneously within a few hours of the end of an exposure and leaves no sequelae. Although not detrimental to the eye per se, glaucopsia predisposes an affected individual to physical accidents and reduces the ability to undertake skilled tasks, such as driving a motorized vehicle.
Carcinogenicity: None
Pre-Existing Medical Conditions Aggravated by Exposure: Exposure may aggravate pre-existing respiratory or skin problems.

SECTION IV: FIRST AID PROCEDURES

Inhalation: Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.
Eyes: In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.
Skin: Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.
Ingestion: DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION V: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not Applicable (Water Based Fluid)
Explosive Limits:	LEL = Not Determined UEL = Not Determined

EXTINGUISHING MEDIA:
Small Fires: Dry chemical, CO_2, water spray, or regular foam.
Large Fires: Water spray, fog, or regular foam.

Special Firefighting Protection/Emergency Action: Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. If runoff from fire control occurs, notify the appropriate authorities.
Unusual Fire/Explosion Hazards: None
Products of Combustion: Carbon monoxide, carbon dioxide, miscellaneous hydrocarbons.

SECTION VI: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Steps to be taken in case Material is Released or Spilled: Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.
Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
Large Spills: Dike far ahead of liquid spill for later disposal.

SECTION VII: SAFE HANDLING INFORMATION

Precautions To Be Taken In Handling/Storage: Store in cool, well-ventilated area. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.
Other Precautions: Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes. Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

SECTION VIII: EXPOSURE CONTROLS

Respiratory Protection: NIOSH-approved respirator for organic vapor and mist to control exposure where ventilation is inadequate.
Ventilation: General and local exhaust.
Personal Protective Equipment:
Protective Gloves: Impervious gloves (Viton, PVOH, etc.)
Eye Protection: Safety glasses with sideshields or chemical goggles.
Other Protective Clothing or Equipment: If splashing is anticipated, wear rubber apron and boots or other protective equipment to minimize contact.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Milky White
Appearance:	Viscous Liquid
Odor:	Ammonia
Boiling Point (initial):	212 ^{o}F
Evaporation Rate (water=1):	1
Vapor Pressure (mmHg @ 20 ^{o}C):	Not Determined
Vapor Density (air=1):	>1
Solubility in Water:	Miscible
Specific Gravity:	0.98
pH:	8-10
Percent Volatile by Volume:	50

SECTION X: REACTIVITY HAZARD DATA

Stability: Stable
Incompatibility: Strong acids, oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, miscellaneous hydrocarbons.
Hazardous Polymerization: Will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION

None known.

SECTION XII: ECOLOGICAL INFORMATION

None known.

SECTION XIII: 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 XIV: TRANSPORTATION INFORMATION

Rust Inhibitor / Non-Hazardous

SECTION XV: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)
VOC per gallon minus exempt solvents & water: 0.3 lbs/gal

EPA Hazardous Waste Number(s) (40 CFR Part 261): Not Applicable

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

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%
Cobalt Compounds		<0.5
Manganese Compounds		<0.1

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 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.