MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification
Product Name: PINEMUL 201 (Invert Mud Secodary Emulsifier)
Chemical Family: Alkyl Polyamide
CAS Number: Blend

Company Identification
Mobile Rosin Oil Company, Inc.
P. O. Drawer 70107
Mobile, Alabama 36670 USA
251-476-4282 (For product information)
251-476-4282, Weekends 888-455-6064 (For emergencies)
1-800-424-9300 or 1-202-483-7616 (CHEMTREC)

SPECIAL NOTES:
Internet Address: http://www.mobros.com.

E-mail: mobros@mobros.com.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Amount	CAS Number
2-BUTOXYETHANOL	< 10.0 %	111-76-2
BUTYL CARBITOL	< 10.0 %	112-34-5

This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

EXPOSURE GUIDELINES:
No Information Available.

3. HAZARDS IDENTIFICATION

********** **EMERGENCY OVERVIEW** **********
*
* **The health hazards of this product should be low** *
* **under normal industrial and commercial uses. This** *
* **product will burn when exposed to heat, spark, or** *
* **flames. After prolonged contact with porous** *
* **materials, this product may spontaneously oxidize** *
* **(combust).** *
*
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EYE:
Avoid eye contact. Irritating vapors may be formed when product is processed at high temperatures. Exposure to hot material may cause thermal burns. If heated material contacts eye, seek medical attention immediately for thermal burn treatment.

SKIN:
Avoid skin contact. Contact with product at elevated temperatures can result in thermal burns. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis) in susceptible individuals. Maintain good hygiene practices.

INHALATION:
Irritating vapors may be formed when product is processed at high temperatures. Avoid breathing vapors or mists. Short-term inhalation of vapors may cause dizziness, nausea, and respiratory tract congestion in some individuals. Single exposure is not expected to cause acute toxicity.

INGESTION:
Ingestion of large amounts is unlikely. Ingestion of small amounts is not likely to cause acute toxicity or internal damage.

CHRONIC EFFECTS:
Prolonged exposure to vapors or fumes generated by heating of this product may lead to respiratory irritation with throat discomfort, coughing or breathing difficulty. Repeated exposure may lead to respiratory sensitization (asthma).

CARCINOGENICITY INFORMATION:
No known cancer hazards.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:
Immediately flush eyes with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops or persists. If molten product contacts eyes, flush with water for at least 15 minutes and seek medical attention.

SKIN CONTACT FIRST AID:
Remove contaminated clothing and shoes. Wash skin with soap and water. Do not reuse contaminated clothing without laundering. If molten product contacts skin, cool under running stream of water. Do not attempt to remove from skin. Removal could result in severe skin damage. Get medical attention.

NOTES TO PHYSICIAN: Material should not be forcibly pulled from skin. Mineral oil may be used to loosen the material, then provide treatment as required for thermal burn.

INHALATION FIRST AID:
Remove to fresh air. Restore breathing. Seek medical attention.

INGESTION FIRST AID:
Product is not considered to be toxic in small amounts. Obtain medical treatment if large amounts are swallowed.

NOTES TO PHYSICIAN: The decision whether to induce vomiting or not should be made by an attending physician. If lavage is performed, suggest endotracheal and/or esophageal control. No specific antidote. If burn is present, treat as any thermal burn. Specific treatment must be based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
TCC Flash Point: > 100.0 C (> 212.0 F)
Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR
LEL: N/A
UEL: N/A

EXTINGUISHING MEDIA:
Use water spray to cool fire exposed containers. Use carbon dioxide, dry chemical or water spray to extinguish fires.

(section 5 continued)

NFPA Rating:
Health - 1, Flammability - 1, Reactivity - 0
Special Hazards - None

FIRE & EXPLOSION HAZARDS:
Can burn in fire, releasing toxic vapors. No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:
As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area and fight fire from a safe distance.

COMBUSTION PRODUCTS:
When product is heated to decomposition, product will emit acrid dense smoke with carbon dioxide, carbon monoxide, trace oxides of sulfur, water and other products of combustion; possibly including formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):
Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction. Protect skin and eyes from exposure. Wear appropriate personal protective equipment.

INITIAL CONTAINMENT:
Eliminate all sources of ignition - heat, sparks, flame, electricity, and impact. Shut off leak if safe to do so. Contain spilled material.

LARGE SPILLS PROCEDURE:
Contain spilled liquid with sand or earth. Absorb spill with inert material (e g, dry sand or earth), then place in disposal container. Dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE:
Absorb spills with inert material. Dispose of waste material in accordance with all local, state/provincial, and national requirements.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):
Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. When sampling containers use appropriate personal protective equipment.

(section 7 continued)

HANDLING (PHYSICAL ASPECTS):
Avoid extreme temperatures.

STORAGE PRECAUTIONS:
Keep container closed when not in use. Protect containers from physical damage. Control inventory by using oldest material first. Suggest stainless steel construction for bulk storage but mild steel is acceptable.

MISCELLANEOUS:
Maintain good housekeeping.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:
This material does not have established exposure limits. Wear safety glasses.

SKIN PROTECTION REQUIREMENTS:
For brief contact, normal work attire should be sufficient. When material is heated, wear gloves to protect against thermal burns.

RESPIRATORY PROTECTION REQUIREMENTS:
Under normal use conditions, with adequate ventilation, no special handling equipment is required.

MISCELLANEOUS:
Maintain good personal hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	Viscous liquid
COLOR	Brown
ODOR	Characteristic
BOILING POINT	N/A F
VAPOR PRESSURE	Not determined psia
VAPOR DENSITY	Not determined (Air = 1)
SOLUBILITY IN WATER	Insoluble
SPECIFIC GRAVITY	.940 (Water = 1)
BULK DENSITY	Not determined
MELTING/FREEZING POINT ...	N/A F
PH	N/A

10. STABILITY AND REACTIVITY

STABILITY:
Stable.

POLYMERIZATION:
Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:
Avoid contact with strong oxidizing agents.

DECOMPOSITION:
Decomposition may produce normal products of combustion such as fumes, smoke, oxides of carbon and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

MISCELLANEOUS:
Toxicological information has been developed for some products and may be available for this product. For available information, write to the address listed in Section One of this MSDS.

12. ECOLOGICAL INFORMATION

MISCELLANEOUS:
See Section Three.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
Incineration is recommended. Bury in landfill in accordance with all applicable regulations as an alternative. Dispose of waste material in accordance with all local, state/provincial, and national requirements. Uncleaned empty containers should be disposed of in the same manner as the contents.

14. TRANSPORT INFORMATION

PRODUCT LABEL.....: PINEMUL 201 (Invert Mud Secodary Emulsifier)
D.O.T. SHIPPING NAME.....: Elevated Temperature Liquid, n.o.s.
TECHNICAL SHIPPING NAME...: N/A
D.O.T. HAZARD CLASS.....: 9
UN NUMBER.....: UN 3257
D.O.T. LABEL.....: N/A
D.O.T. PLACARD.....: HOT
BULK CLASS.....: N/A
PACKAGE CLASS.....: N/A

MISCELLANEOUS:
These regulations apply only when this product is shipped at a temperature of 100°C or above. This product is NOT REGULATED when shipped under 100°C.

15. REGULATORY INFORMATION

As defined under Sara 311 and 312, this product contains no known hazardous materials.

REGULATORY DISCLOSURES:
FDA: Not Regulated.

USDA: Not Regulated.

CPSC: Not Regulated.

TSCA: All components are listed on the Toxic Substances Control Act Inventory.

DOT: See Section 14.

OSHA: This product is not considered hazardous by OSHA Standards.

CERCLA (40 CFR 302.4) Reportable Quantity: Not Regulated.

SARA Title III: Section 302 Extremely Hazardous Substances: None
Section 311/312 Hazardous Categories: None
Section 313 Toxic Chemicals: None.

RCRA Status: If discarded in purchased form, this product would not be a hazardous waste by listing or characteristic. However, under RCRA, it is the resposibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

EEC Symbols and Indications of Danger:
None

(section 15 continued)

WHMIS Hazard Symbols:
None

Canadian Disclosure List
BUTYL CARBITOL (112-34-5)

16. OTHER INFORMATION

HMIS Rating:
Health - 1, Flammability - 1, Reactivity - 0
Personal Protection Index - D

NFPA Rating:
Health - 1, Flammability - 1, Reactivity - 0
Special Hazards - None

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the national Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

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END OF MSDS

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