

MATERIAL SAFETY DATA SHEET

CALCASIEU REFINING COMPANY

DATE: May 15, 2006

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PRODUCT IDENTIFICATION

PRODUCT: MINERAL SPIRITS

CAS NO. 8052-42-3

DOT NO. Petroleum distillate, n.o.s., III, un 1268, III

MANUFACTURER: Calcasieu Refining Company
4359 West Tank Farm Road
Lake Charles, Louisiana 70605
(337) 478-2130

TRANSP. EMER: INFOTRAC 1-800-535-5053 (24 HR)

HAZARDOUS INGREDIENTS

This material is defined as hazardous by OSHA's 29 CFR 1910.1200

<u>INGREDIENT</u>	<u>CAS No.</u>	<u>VOL. %</u>	<u>OSHA 191.1000</u>	
			<u>TWA (8 HR.)</u>	<u>STEL (15 MIN.)</u>
Hydrocarbons	Mixture	100 (Total)	-----	-----
Toluene	108 - 88 - 3	3.5 - 4.5	50 PPM	
Heptane, all isomers			400 PPM	500 PPM
Octanes, all isomers			300 PPM	
Methylcyclohexane			400 PPM	

NFPA HAZARD RATING

HEALTH: 1 (SLGHT) **FLAMMABILITY:** 3 (HIGH) **REACTIVITY:** 0 (LEAST)

PHYSICAL PROPERTIES DATA

Boiling Range: 315 - 398°F	Sp.Gr. (60°F): 0.72 - 0.74
Vapor Press. (100°F/2.0 mm Hg @ 68°F)	Solubility (water): negligible
Vapor Density: > 4.9	API Gravity 48.5 -50.5
Color: + 30	Flash Point, °F: 105-110
Sulfur, wt%: 0.005 - 0.016	Doctor: Neg
Copper Corrosion: 1A	

STABILITY AND REACTIVITY

Chemical stability: ----- Stable at normal temperatures

Incompatibility: ----- Avoid strong oxidizers and acids. Avoid storage or contact with some plastics and elastomers. Consult a chemical resistance guide.

Conditions to avoid: ----- Avoid heat, sparks, flame and other ignition sources.
Decomposition: ----- Combustion may produce carbon monoxide or dioxide and/or other hazardous hydrocarbons.
Polymerization: ----- Should not occur.

FIRE AND EXPLOSION INFORMATION

FLASH POINT (CC): 105 - 110°F FLAM. LIMITS: 0.5% (L) - 6.0% (U)

Note: Avoid heat, sparks, or build-up of static electricity.

EXTINGUISHING MEDIA: Foam, dry chemical, CO2.

Note: Water fog could be use, but may be ineffective except to keep exposed container cool. Can also be used to disperse if unignited.

HEALTH HAZARD INFORMATION

PRIMARY ROUTES (EXPOSURE / ENTRY): Skin, Inhalation

Typical petroleum hydrocarbons in this boiling range may cause irritation tot he eyes lungs, or skin after prolonged or repeated exposure. Prompt removal of this product should prevent any chronic health problems. Also, avoid breathing of the vapors.

Some studies have indicated that workers exposed many years to higher concentration of benzene have a slightly higher incidence of leukemia. However, due to the low levels of benzene in this material, proper handling should minimize any potential health problems.

FIRST AID

INHALATION: Remove to fresh air. If breathing difficult, give oxygen. If not breathing difficult, give artificial respiration and call a physician.

SKIN CONTACT: Immediately wash with soap and water. Change clothing.

EYE CONTACT: Immediately flush with water. Call physician.

INGESTION: Do not induce vomiting. Call physician.

PROTECTIVE EQUIPMENT

HANDLING: Wear protective gloves (Neoprene or NBR). Wear safety glasses with side shields or, if splashing is probable, wear chemical Goggles

RESPIRATORY PROTECTION: Avoid breathing vapors. If a situation exists for the potential of exceeding exposure limits, it will be necessary to determine whether an organic vapor cartridge will suffice or positive pressure breathing equipment will be required.

SPILL, LEAK, AND DISPOSAL INFORMATION

SPILLS & LEAKS: Evacuate as required. Remove sources of heat, sparks, etc. Attempt to isolate spill and keep from entering sewers and waterways. Recover free liquid for reclamation.

DISPOSAL: Soak up with an absorbent material. This material may be a RCRA hazardous waste and, if so, must be handled according to applicable regulation.

Note: Review appropriate safety sections of this MSDS.

REGULATORY INFORMATION

CERCLA (40 CFR 302)

This material, when discarded released required notification of NRC for quantities of "hazardous substances" equal to or greater than the reportable quantities (RQs) listed in 40 CFR 302.4. Chemical substances present in this product subject to this statute are:

Xylenes (RQ = 100 lbs), Concentration : 0.001 to 0.36 %
Ethylbenzene (RQ = 1000 lbs), concentration: 0 to 0.072%
Cumene (RQ = 5000 lbs), concentration: 0.43 to 0.72%

SARA TITLE III

- 1) SECTION 302 / 304 (40 CFR 355)
This material is not known to contain extremely hazardous substances at greater than 1.0% concentration.
- 2) SECTION 311/312 (40 CFR 370)
This material should be reported under the following hazard categories:

Immediate (Acute), Delayed (Chronic), Fire
- 3) SECTION 313 (40 CFR 372)
This material contains the following ingredients subject to reporting as a toxic chemical.

<u>INGREDIENT</u>	<u>CAS No.</u>	<u>APPROX. MAX. CONC.</u>
1,2,4 Trimethylbenzene	95-63-6	1 - 4%

TSCA (40 CFR 710)

This material is a mixture as defined by TSCA. The chemical ingredients in this material are in section (8b) chemical substance inventory and/or otherwise in compliance.

FEDERAL CLEAN WATER ACT (40 CFR 116.4) SECTION 311

This material contains the following ingredient (s) which is considered hazardous if spilled in navigable waters and must be reported to the EPA's National Response Center.

<u>INGREDIENT</u>	<u>REPORTABLE QUANTITY</u>
Petroleum Hydrocarbon	Film or sheen upon or discoloration of water surface or adjoining shoreline.

HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS (49 CFR 171-178)

This material contains the following ingredient (s) which is considered a hazardous substance as defined in 49 CFR 172.101 if spilled while being transported in commerce.

Petroleum distillates, n.o.s. (Nonanes, Trimethylbenzenes)

Placards	Emergency Response Guide No.	128
	Hazmat STCC No.	49 102 56
	Maripol III Status	All impacted components were delisted as DOT "Marine Pollutants" per 66 FR 120

STATE REGULATION

LOUISIANA (RS. 30:2361 et seq.)

This material may be regulated by Louisiana's Right-To-Know Law.

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**CALCASIEU REFINING CO.
105 FLASH MINERAL SPIRIT TANK FINALS
TRUCK SALES**

TANK NO:	302	SAMPLE DATE:	2/29/2008
CUSTOMER:	Madison Chemical	SAMPLE TYPE:	U,M,L
Batch #:	4	SAMPLED BY:	Operator
		ANALYZED BY:	Laboratory

DISTILLATION RECORD

PERCENT RECOVERY	TEMP F.	TEST METHOD
I.B.P.	317	D-86
50	327	
E.P.	376	
RECOVERY	99.5%	
LOSS	0.0%	
RESIDUE	0.5%	

API GRAVITY @ 60 F.	49.3	D-287
% SULFUR	0.003%	D-4294
Color	+ 27	D-156
Doctor's Test	neg	D-4952
Aromatics Content	14.0%	D-1319
Corrosion, Copper	1A	D-130
Kauri Butanol Value	36	D-1133
Odor	characteristic, non residual	D-1296
Aniline Pt. F.	131	D-1159
FLASH PT F.	108	D-93

COMMENTS:

Dennis Lawson
Manager of Oil Movements & Marketing

GOODWAY REFINING, LLC

MATERIAL SAFETY DATA SHEET MS 300 Mineral Spirits *Varsol*

Section I

Manufacturer's Name: Goodway Refining, LLC
Manufacturer's Address: 4745 Ross Road, Atmore, AL 36502
Emergency Telephone Number: 800-424-9300 (CHEMTREC)
Telephone Number for Information: 251-294-5660 (Goodway)
Date MSDS Prepared: January 11, 1999
Date MSDS Revised: April 26, 2002

Section II - Hazard Ingredients/Identity Information

Item Name: MS 300
Common Name: Mineral Spirits

Proprietary: No
Ingredient: Virgin mixed hydrocarbons
Ingredient Sequence Number: 01
OSHA Permissible Exposure Limit: Not established
ACGIH Threshold Level Value: Not established
Other Recommended Exposure Limits: None specified

Section III - Physical/Chemical Characteristics

Boiling Point: 320F
Specific Gravity (H₂O = 1): .70 - .80
Vapor Pressure (mm Hg.): < 1 psi
Vapor Density (AIR = 1): >3
Evaporation Rate (Butyl Acetate = 1): Volatile
Solubility in Water: Negligible.
Percent Volatiles by Volume: 100
Appearance and Odor: Clear (water white) liquid, light hydrocarbon odor.

Section IV - Fire and Explosion Hazard Data

Flash Point: 118F
Flash Point Method: TCC
Lower Explosive Limit: 0.7%
Upper Explosive Limit: 6.0%
Extinguishing Media: Dry chemicals, carbon dioxide, foam, halon. Water may be an ineffective extinguishing agent.
Special Fire Fighting Procedures: Fire fighters should wear protective clothing and self-contained breathing apparatus. Isolate damage area, deny entry. Stop spill if minimal risk.
Unusual Fire and Explosion Hazards: Material is flammable, may travel to distant source of ignition & flashback. Vapors are heavier than air and may collect in low areas.

Section V - Reactivity Data

Stability: Yes.
Conditions to Avoid: All possible sources of ignition, high heat. Avoid exposure to incompatible materials.
Material to Avoid: Strong oxidizing agents and reducing agents.
Hazardous Decomposition or Byproducts: Carbon monoxide & carbon dioxide.
Hazardous Polymerization: No.

Section VI - Health Hazard Data

Route of Entry - Inhalation: Yes.

Route of Entry - Skin: Yes.

Route of Entry - Ingestion: Yes.

Health Hazards (Acute and Chronic): Acute: Causes skin and eye irritation. Aspiration hazard if swallowed; can enter lungs and cause damage. Low to moderate degree of toxicity if inhaled or swallowed. Chronic: Repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Carcinogenicity - NTP: No.

Carcinogenicity - IARC Monographs: No.

Carcinogenicity - OSHA Regulated: No.

Signs and Symptoms of Exposure: Eyes - irritation, stinging, watering, redness and swelling. Skin - redness, burning, drying, and cracking of skin. Inhaled - headache, drowsiness, dizziness, loss of coordination, fatigue, irritation of nose/throat. Ingested - irritation of GI tract, nausea, vomiting, diarrhea.

Medical Conditions Generally Aggravated by Exposure: Pre-existing skin disorders, respiratory (asthma-like) disorders, kidney and liver disorders. Exposure may cause irregular heart beats. Persons with pre-existing heart disorders may be more susceptible.

Emergency and First Aid Procedures: Inhalation - remove to fresh air. Give artificial respiration if not breathing. Get medical attention. Eye - flush with water for 15 minutes while holding lid open. Get medical attention. Skin - wash with soap and water. Remove contaminated clothing. Ingestion - Do not induce vomiting. Get medical attention immediately.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Eliminate all sources of ignition. Use non-sparking tools. Isolate & deny entry. Wear proper protective gear. Prevent spill from entering sewers, waterways. Absorb onto appropriate absorbent material.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

Precautions to Be taken in Handling and Storing: Store in a cool, dry, well-ventilated place away from sources of ignition and incompatible materials. Electrostatic accumulation hazard. Use proper grounding procedures.

Other Precautions: Empty containers retain product residue. Don't expose to heat and other ignition sources.

Section VIII - Control Measures

Respiratory Protection: Where concentrations in air may exceed the limits, wear NIOSH/OSHA approved respirators.

Ventilation: Use adequate explosion proof mechanical ventilation or local exhaust to maintain exposure below TVL(s).

Protective Gloves: Oil impervious.

Eye Protection: Safety glasses/chemical splash goggles.

Other Protective Clothing or Equipment: Eye wash station and safety shower.

Work/Hygienic Practices: Wash hands after handling and before eating, drinking, or smoking. Launder contaminated clothes before reuse.

Section IX - Transportation Data

DOT Shipping Name: Mineral Spirits, paint related product.

DOT Class: 3

DOT ID Number: UN1268 NOS

DOT Packing Group: III

DOT Label: Flammable Liquid.

C. A. S. Number: 8052-41-3