

Goodway Retining, LLC
4745 Ross Road
Atmore, Alabama 36502
Phone: 251-294-5660 Fax: 251-294-5658

Certificate of Analysis

Technical Name: Dyed Distillate Blendstock Marine (500ppm) **Sample Capture:** 6/10/2014

Common Name: Dyed Distillate Blendstock Marine 500ppm

D 86 Distillation

IBP	310.5
1%	322.1
2%	324.2
3%	326.7
4%	328.2
5%	329.2
10%	329.7
20%	341.7
30%	352.7
40%	369.3
50%	389.9
60%	414.3
70%	441.0
80%	469.5
90%	501.7
91%	505.9
92%	510.0
93%	515.0
94%	520.7
95%	526.1

D 287 Api Gravity 44.6

Specific Gravity 0.8035

D 93 Flash Point 117

LBS Per Gallon 6.698

D 4294 Total Sulfur m/m% 0.0492
X-Ray Analysis

D 976 Cetane 42.59

STOP 95.0% @ 526.1 f

GOODWAY REFINING, LLC

MATERIAL SAFETY DATA SHEET

Dyed Distillate Blendstock, 500

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: March 6, 2003
Date MSDS Revised: May 30, 2014

Section II - Hazard Ingredients/Identity Information

Item Name: Dyed Distillate Blendstock, 500
Common Name: Distillate Blendstock

Proprietary: No
Ingredient: Hydrocarbon Distillates
Ingredient Sequence Number: 01
OSHA Permissible Exposure Limit: Not established
ACGIH Threshold Level Value: Not established
Other Recommended Exposure Limits: None recommended

Proprietary: No
Ingredient: Hydrogen Sulfide (SARA III) (May be present in trace quantities)
Ingredient Sequence Number: 02
OSHA Permissible Exposure Limit: C, 20 PPM
ACGIH Threshold Level Value: 10 PPM/15 STEL; 9394
Other Recommended Exposure Limits: None recommended

Section III - Physical/Chemical Characteristics

Boiling Point: >500F, >260C
Specific Gravity (H₂O = 1): >1
Vapor Pressure (mm Hg.): .02
Melting Point: Unknown
Vapor Density (AIR = 1): 8
Evaporation Rate (Butyl Acetate = 1): .01
Solubility in Water: Insoluble, negligible.
Appearance and Odor: Yellow to amber colored hydrocarbon liquid. Petroleum odor.

Section IV - Fire and Explosion Hazard Data

Flash Point: 114F
Flash Point Method: PMCC
Lower Explosion Limit: Unknown
Upper Explosive Limit: Unknown
Extinguishing Media: Use carbon dioxide, foam, halon, water spray or any approved extinguishing agent for Class B fires.
Special Fire Fighting Procedures: Fire fighters should use NIOSH approved SCBA and full protective equipment when fighting fire. Use water spray to cool nearby fire exposed containers.
Unusual Fire and Explosion Hazards: OSHA & NFPA Class II combustible liquid. Vapors are heavier than air and may travel along ground or floor, then "flash back" from a distant ignition source.

Section V - Reactivity Data

Stability: Yes
Conditions to Avoid: High temperatures, open flames, welding, smoking and ignition sources.
Material to Avoid: Strong oxidizers, ignition sources and heat.
Hazardous Decomposition or Byproducts: Carbon dioxide and carbon monoxide, sulfur dioxide and acrid smoke.
Hazardous Polymerization: No.
Conditions to avoid (poly): Not applicable.

Section VI - Health Hazard Data

Route of Entry - Inhalation: Yes

Route of Entry - Skin: Yes

Route of Entry - Ingestion: No

Health Hazards (Acute and Chronic): Eye: Slight irritation, redness, tearing, blurred vision. Skin: Slight to moderate irritation. Product could be shipped hot and may cause thermal burns. Ingested: Practically non-toxic. Large quantities may cause G/I disturbances. Inhaled: Respiratory irritation, harmful CNS effects, liver and/or kidney damage.

Carcinogenicity - NTP: No.

Carcinogenicity - IARC Monographs: Yes.

Carcinogenicity - OSHA Regulated: No.

Explanation Carcinogenicity: Similar materials have been shown to be carcinogenic in experimental animals.

Signs and Symptoms of Exposure: Eye: Slight irritation, redness, tearing, blurred vision. Skin: Slight to moderate irritation, thermal burns. Ingested: Large quantities may cause G/I disturbances, nausea, vomiting, diarrhea, aspiration into lungs, Inhaled: Respiratory irritation, harmful CNS effects, excitation, euphoria, dizziness, headache, liver and kidney damage.

Medical Conditions Generally Aggravated by Exposure: Irritation from skin exposure may aggravate existing dermatitis (rash) conditions.

Emergency and First Aid Procedures: Treat thermal burns by normal first aid procedures. Eye: Flush w/water 15 minutes, hold lids open. Skin: Wash with soap and remove to fresh air. Aid/restore breathing if necessary.

Ingested: Do not induce vomiting. Give two large glasses of milk or water to dilute and get immediate medical care. Nothing by mouth if unconscious.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Activate spill plan. Eliminate ignition sources. Ventilate area. Use non-sparking tools. Wear proper protective equipment. Stop leak and contain spill. Absorb in inert absorbent and place into appropriate disposal container and seal.

Waste Disposal Method: Maximum recovery for reuse/recycling. (Not a listed or characteristic waste under federal regulations.) Consult state and local regulations.

Precautions to be taken in Handling and Storing: Keep away from flame, sparks, excessive temperatures. Store in well ventilated, NFPA 30 area. Avoid proximity to incompatible materials.

Other Precautions: Bond and ground containers during transfer. Protect containers from physical damage. Do not pressurize containers. Sometimes shipped hot. Hydrogen sulfide may accumulate in tanks. Empty containers may contain explosive vapors.

Section VIII - Control Measures

Respiratory Protection: NIOSH/MSHA approved air purifying respirator w/organic vapor cartridge. Use air supplied positive pressure respirator for hydrogen sulfide and where uncontrolled release is a possibility. Refer to OSHA 1910.134 & ANSI Z88.2-1992.

Ventilation: Use adequate ventilation to keep vapor and mist concentration below occupational exposure limits.

Protective Gloves: Neoprene or nitrile.

Eye Protection: Safety glasses or goggles.

Other Protective Clothing or Equipment: Eye wash safety shower.

Work/Hygienic Practices: Use good personal hygiene. Avoid prolonged/repeated skin contact. Wash before eating, drinking, smoking or using toilet.

Section IX - Transportation Data

DOT Shipping Name: Dyed Distillate Blendstock, 500

DOT Class: 3

DOT ID Number: 1993

DOT Pack Group: II

DOT Label: Combustible liquid.