

**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**

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

**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%**  
X-Ray Analysis

**0.0492**

**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 (H<sub>2</sub>O = 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.