

ENVIROFUELS, LP

1111 Fannin, Suite 1500
Houston, Texas 77002

MATERIAL SAFETY DATA SHEET

BLUE MARBLE® HIGH PERFORMANCE TWO CYCLE ENGINE TREATMENT

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Emergency Contact No.: 713-821-9600

CHEMTREC No.: 800-424-9300

Section I – Chemical Product and Company Identification

Product Name: Blue Marble® High Performance Two Cycle Engine Treatment

CAS No: Mixture

Manufacturer: Envirofuels, LP
1111 Fannin, Suite 1500
Houston, Texas 77002

Synonyms: None

Section II – Composition and Information on Ingredients

<u>Component Name</u>	<u>CAS Registry No.</u>	<u>Concentration (%)</u>
White Mineral Oil	8042-47-5	60-70
Butene homopolymer	9003-29-6	10-30
Hydrotreated heavy paraffinic distillate	64742-54-7	5-15
Aliphatic Petroleum Distillate	64742-88-7	10-20
Amines, polyethylenepoly reaction products with succinic anhydride polyisobutylene derivatives	84605-20-9	1-5

Section III – Health Hazard Information

EMERGENCY OVERVIEW

Eye Contact: Liquid contact may cause irritation.

Skin Contact: Prolonged liquid contact may cause irritation. Hot liquid may cause thermal burns.

Inhalation: Inhalation of mists or droplets may cause irritation of the mucous membranes of the eyes, nose, throat and lungs.

Ingestion: May be harmful by ingestion. May cause irritation, nausea and vomiting.

Section IV – First Aid Measures

- Eye Contact: In case of contact, immediately flush eyes with water for at least 15 minutes. Seek medical attention if redness or soreness persists.
- Skin Contact: Immediately remove contaminated clothing. Wipe off excess material. Wash exposed skin areas with soap and water. Discard contaminated leather goods. If material is injected under the skin, into the muscle, or in the bloodstream seek medical help.
- Ingestion: DO NOT INDUCE VOMITTING. Obtain medical attention immediately. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. Call poison control.
- Inhalation: If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Section V – Fire Fighting Measures

NFPA Flammability Classification	NFPA Class III-B combustible material. Slightly combustible!
	Health <u>1</u> / Fire <u>1</u> / Reactivity <u>0</u>
Flash Point (ASTM D92)	> 180 ^o F
Lower flammable Limit	Not determined
Upper Flammable Limit	Not determined
Autoignition Temperature	Not determined

Extinguishing Media:

Carbon dioxide, dry chemical, foam, water fog.

Hazardous Combustion Products:

Carbon dioxide, carbon monoxide, smoke, fumes and unburned hydrocarbons.

Special Properties:

This material can burn but will not readily ignite. However, if the material is heated above the flash point it can release vapors that will ignite when exposed to ignition sources. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may ignite at temperatures below the flash point.

Fire Fighting Procedures:

Cool adjacent structures with water spray. For spills not ignited, refer to Section VI. Firefighting personnel should wear full bunker gear including NIOSH approved positive pressure self-contained breathing apparatus (SCBA)

Section VI – Accidental Release Measures

Take proper precaution to assure your own health and safety before attempting spill control or cleanup. Shutoff all ignition sources; no flares, smoking or flames in the affected area. Do not walk through or touch spilled material.

Small Spill:

Absorb spilled material with dry earth, sand, or other non-combustible absorbent material and place in waste containers for later disposal.

Large Spill:

Contain to maximize product recovery or disposal. Prevent entry into waterways or sewers. In natural environments, seek cleanup advice from specialists to minimize environmental damage. This material will float on water. Absorbent pads or similar products can be used. Use proper grounding procedures when transferring the material. Consult the appropriate regulatory agencies for reporting and disposal requirements.

Section VII – Handling and Storage

Handling:

Avoid water contamination and extreme temperatures to minimize product degradation. Use in well ventilated area. Avoid eye and skin contact, and inhalation of mists. See Section VIII for personal protective equipment recommendations. Know locations of nearest eye wash and safety showers. Empty containers can contain product residues that can ignite. Do not expose empty containers to potential ignition sources.

Storage:

Keep container closed. Do not store with oxidizing agents. Do not store at temperatures above 120^o F or in direct sunlight for extended periods of time.

Section VIII – Exposure Controls and Personal Protection

Occupational Exposure Guidelines: No specific limits exist for this product mixture. The following limits are recommended as minimum exposure guidelines.

Component	AGICH (United States)		OHSA
	TWA	STEL	TWA
Aliphatic Petroleum Distillate (64742-88-7)	100 ppm (TLV)	--	100 ppm (VPEL)
Mineral Oil Mist	5 mg/m ³	10 mg/m ³	5 mg/m ³

<u>Engineering Controls:</u>	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of mists and/or vapors below the recommended exposure limits.
<u>Personal Protective Equipment:</u>	Personal Protective Equipment (PPE) should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted according to approved OSHA protocol. Minimum PPE requirements are safety glasses with side shields and a lab coat or chemical apron. For certain conditions additional PPE may be required.
<u>Eye Protection:</u>	Safety glasses with side shields should provide adequate protection. Wear chemical goggles and face shield if material is heated above 125 ^o F. Have suitable eye wash water available.
<u>Skin Protection:</u>	Use chemical resistant gloves if frequent or prolonged contact with hands is expected. Use heat protective gloves and wear protective boots when handling product at elevated temperatures. Normal protective clothing may include a long sleeve outer garment, apron or lab coat. If significant contact occurs, remove contaminated clothing and shower promptly. Launder contaminated clothing before reuse or discard.
<u>Respiratory Protection:</u>	If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist pre-filter should be used. For conditions where the airborne concentration of the material is not known use a NIOSH-approved SCBA.

Section IX – Physical and Chemical Properties

<u>Physical Form:</u>	Liquid	<u>Viscosity:</u>	40-50 cSt @ 100 ^o F
<u>Boiling Point:</u>	Not available.	<u>Pour Point:</u>	< -40 ^o F
<u>pH:</u>	Not applicable.	<u>Flash Point (COC):</u>	> 180 ^o F
<u>Specific Gravity:</u>	0.86 g/ml (60 ^o F/60 ^o F)	<u>Solubility in Water:</u>	Insoluble
<u>Vapor Pressure:</u>	< 1.0 mm of Hg (20 ^o C)	<u>Color:</u>	Green

Section X – Stability and Reactivity

<u>Stability:</u>	Stable
<u>Reactivity:</u>	Incompatible with strong oxidizers, bases, and acids.
<u>Hazardous Polymerization</u>	Will not occur.

Section XI – Toxicological Information

<p><u>LD50:</u> Oral: Rat - >5,000 mg/kg Dermal: Rat - >2,000 mg/kg</p>	<p><u>Irritation Index:</u> Skin – Rabbit – practically non-irritating Eye - Rabbit – practically non-irritating</p>
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Section XII – Ecological Information

None available.

Section XIII – Disposal Considerations

Consult local, state, and Federal regulatory agency guidelines for proper disposal of this material. Under certain conditions of use, this material may become a “hazardous waste” as defined by state and Federal regulations. It is the responsibility of the user to determine if the material is a RCRA “hazardous waste” at the time of disposal. Contact the RCRA/Superfund Hotline at 1-800-424-9346 or your regional EPA office.

Section XIV – Transportation Information

<u>DOT Status:</u>	Not a DOT regulated material.
<u>Proper Shipping Name:</u>	Not regulated.
<u>Hazard Class:</u>	Not regulated.
<u>Packing Group(s):</u>	Not applicable.
<u>UN/NA ID:</u>	Not regulated.
<u>Reportable Quantity:</u>	A reportable quantity (RQ) has not been established.
<u>Emergency Response Guide No.:</u>	Not applicable.
<u>HAZMAT STCC No.:</u>	Not assigned.
<u>MARPOL III Status:</u>	Not a DOT “Marine Pollutant” per 49 CFR 171.8.

Section XV – Regulatory Information

<u>EPA:</u>	All components of this product are on the TSCA inventory.
<u>SARA 302/304:</u>	Not listed.
<u>SARA 311/312 Hazards:</u>	Not listed.
<u>CAA-RMP Threshold Quantity:</u>	Not regulated under RMP.
<u>CERCLA Reportable Quantity:</u>	Not regulated.

Section XV – Disclaimer of Liability

The information presented herein is to the best of the company' knowledge true, accurate and reliable. The data are supplied for informational purposes only. No guarantee, either expressed or implied, regarding accuracy, completeness or correctness is conveyed. The actual use of the product is beyond the control of Envirofuels, LP and as such Envirofuels, LP assumes no responsibility for loss, damage, or expense arising out of any use of the products (including storage, shipping and all other modes of handling) described herein.
