

## Material Safety Data Sheet

### Section 1. Chemical Products and Company Identification

Trade Name of this Product: Enviro Max Plus Fuel Additive

Manufacturer  
Maxma LC  
P.O. Box 64296  
Lubbock, TX 79464

Prepared by  
Matrix Analytical Laboratories, Inc.

Effective Date  
5/26/05

Emergency Phone  
1-806-698-1305

### Section 2. Composition and Information on Ingredients

This product is hazardous as defined in 29 CFR 1910.1200, based on the following compositional information:

Ingredient	CAS Number	Weight %	ACGIH TLV		OSHA TVL	
			PEL	STEL	PEL	STEL
1. Light Aliphatic Petroleum Naphtha	64742-89-8	>85	350ppm	350ppm	350ppm	350ppm
2. Toluene	108-88-3	<2	100ppm	125ppm	100ppm	125ppm
3. Xylenes	1330-20-7	<8	100ppm	150ppm	100ppm	150ppm
4. Ethyl Benzene	100-41-4	<2	100ppm	125ppm	100ppm	125ppm
5. Cumene	98-82-8	<2	50ppm	50ppm	50ppm	50ppm
6. 1,2,4 Trimethylbenzene	95-63-6	<2	350ppm	350ppm	350ppm	350ppm
7. Naphthalene	91-20-3	≤0.005	10ppm	15pm	10ppm	15ppm

### Section 3. Hazard Identification

\*\*\*\*\*EMERGENCY OVERVIEW\*\*\*\*\*

- \* WARNING: Flammable Liquid and Vapor. The Flash Point is <100 degrees F.
- \* This product is a pale, greenish-blue clear light hydrocarbon liquid
- \* It has a solvent petroleum odor. The product floats on water.
- \* When burned, the product produces carbon monoxide and other asphyxiants during combustion.
- \* Harmful if inhaled and may cause delayed lung injury.
- \* Aspiration hazard if swallowed – can enter lungs and cause damage.
- \* Keep away from heat, sparks, and flame.
- \* Avoid breathing vapor. Use ventilation to keep vapor below exposure limits.
- \* Avoid contact with eyes, skin and clothing. Material splashed into the eyes will irritate tissues. Gently flush material from eyes with clean water.
- \* Unprotected exposure to this product will cause skin dryness.
- \* Remove product soaked clothing and wash with mild soap.
- \* As with any petroleum product, avoid mixing this product with strong oxidizers.
- \* This product is not listed on the NPT, IARC, OSHA or ACGIH lists of suspected/confirmed carcinogens.
- \* This product may be toxic to fish but will be toxic to birds and wildlife through ingestion during pelage cleaning.
- \* This product is readily biodegradable in the presence of air and sunlight.
- \* Spilled material is slippery and may cause falls.

\*\*\*\*\*END OF EMERGENCY OVERVIEW\*\*\*\*\*

#### POTENTIAL HEALTH EFFECTS

#### PRIMARY ROUTES(S) OF ENTRY

Skin

#### EYES

Tests on similar materials suggest acute irritation to be expected.

#### SKIN

Tests on similar materials indicate acute irritation is expected to occur upon short-term exposure, chronic dermatitis on prolonged contact.

#### INGESTION

ACUTE ASPIRATION HAZARD. Tests on similar materials indicate possibility of the following symptoms: headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions, and loss of consciousness.

#### INHALATION

Tests on similar material indicate the possibility of the following symptoms: headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.

#### CHRONIC (CANCER INFORMATION)

Prolonged and/or repeated contact with this material may produce skin irritation and inflammation.

Carcinogen listed by: National Toxicology Program (No)

#### CHRONIC (CANCER INFORMATION) – Continued

I.A.R.C. (No)

OSHA (No)

ACGIH (No)

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Personnel with pre-existing skin disorders should avoid contact with this product.

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### Section 4. First Aid Information

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#### EYES

Flush eyes immediately with water, occasionally lifting lower and upper lids, for at least 15 minutes or until irritation subsides. Get medical attention promptly.

#### SKIN

Wash thoroughly with soap and water. Immediately removed contaminated clothing and wash before reuse. If irritation or rash develops obtain medical assistance. Immediately remove soaked clothing.

#### INGESTION

CALL PHYSICIAN IMMEDIATELY. Do not induce vomiting except at the instruction of a physician. Never give anything by mouth to an unconscious person.

#### INHALATION

Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration.

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### Section 5. Fire Fighting Measures

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#### FLAMMABLE PROPERTIES

FLASH POINT: 50°F(10°C), Tag Closed Cup (D56)

AUTOIGNITION: 620°F ave., 327°C ave.

FLAMMABILITY CLASS: IB

LOWER EXPLOSIVE LIMIT (%): 1 vol. % (estimated)

UPPER EXPLOSIVE LIMIT (%): 7 vol. %(estimated)

## FIRE AND EXPLOSION HAZARDS

Can form flammable mixtures with air and flash at room temperature or upon slight heat application. Vapors are heavier than air and may travel considerable distance. Explosion hazard in confined spaces if exposed to ignition source. Mists or sprays may be flammable below oil's normal flash point. Keep away from heat or open flame.

### EXTINGUISHING MEDIA

Dry chemical, carbon dioxide, and foam. NOTE: Water, fog and foam may cause frothing and spattering. Water stream may spread fire.

### FIRE FIGHTING INSTRUCTIONS

Use water to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). If leak or spill has not ignited, use water spray to disperse the vapors.

Products of combustion include fumes, smoke and carbon monoxide.

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## **Section 6. Accidental Release Measure**

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Evacuate area and shut off ignition source. Contain spill and keep from entering waterways or sewers. Use personal protective equipment. Advise EPA; state agency if required. Absorb on inert material. Shovel, sweep or vacuum spill and place in closed container for disposal.

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## **Section 7. Handling and Storage**

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**HANDLING:** Keep product away from high energy ignition sources, heat, sparks, pilot light, static electricity, and open flame. Avoid contact with skin. Avoid inhalation of vapors or mists. Use in well ventilated area away from all ignition sources. See Section 8 for additional personal protection advice when handling this product.

**STORAGE:** Store in a cool area.

**SPECIAL PRECAUTIONS:** To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system. Electrical equipment and fittings must comply with local fire prevention regulations for this class of product. Use the correct grounding procedure. Refer to national or local regulations covering safety at petroleum handling and storage areas for this product.

**EMPTY CONTAINER WARNING:** Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

### WORK/HYGIENIC PRACTICES

Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Do not use harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil-soaked clothing and laundry before reuse. Launder or discard contaminated shoes and leather gloves.

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## **Section 8. Exposure Controls and Personal Protection**

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### ENGINEERING CONTROLS

Use adequate ventilation to keep oil mists of this material below applicable standard(s). See Section on occupational exposure limits.

#### EYE/FACE PROTECTION

Safety glasses, splash goggles, or face shield as appropriate. Have suitable eye wash water available.

#### SKIN PROTECTION

Avoid prolonged and/or repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are Neoprene; Nitrile, or Viton.

#### RESPIRATORY PROTECTION

Up to 1,000 ppm, half mask organic vapor respirator. Up to 5,000 ppm, full face organic vapor respirator or full face supplied air respirator. Greater than 5,000 ppm, fire fighting, or unknown concentration, self contained breathing apparatus with positive pressure should be used.

#### OTHER/GENERAL PROTECTION

If there is a likelihood of splashing, oil resistant clothing should be worn. Never wear oil soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard). Maintain local or dilution ventilation to keep air concentration below 100 ppm. Loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygiene personnel to determine air concentrations.

#### INGREDIENT NAME, CAS#, EXPOSURE LIMITS, PERCENT BY VOLUME

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Light Aliphatic Solvent Naphtha, CAS NUMBER: 64742-89-8, TWA-300ppm, 100

Petroleum Distillate (Naphtha)

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### Section 9. Physical and Chemical Properties

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#### APPEARANCE

Pale, greenish-blue clear liquid

#### ODOR

Petroleum Naphtha

#### ODOR THRESHOLD

N.D.

#### PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid

BOILING POINT: IBP >242°F, IBP >117°C

MELTING POINT: -68°F (approx.)

VAPOR PRESSURE: 0.28371 psia @ 68°F

VAPOR DENSITY (AIR=1): 4.1 (approx.)

SPECIFIC GRAVITY: 0.74 Water = 1

MOLECULAR WEIGHT: 118.00

SOLUBILITY (H<sub>2</sub>O): <0.01% @ 77°F

PERCENT VOLATILES: >99.9%

VISCOSITY: 0.8 CST @ 77°F (approx.)

Physical data may vary slightly to meet specifications.

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### Section 10. Stability and Reactivity

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STABILITY: Stable

CONDITIONS TO AVOID (STABILITY)

Sources of ignition.

#### INCOMPATIBLE MATERIALS

Strong oxidizers.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion may produce fumes, smoke, carbon monoxide and other asphyxiants.

HAZARDOUS POLYMERIZATION: Will not occur.

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### Section 11. Toxicological Information

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#### SKIN EFFECTS

May cause irritation or dermatitis with prolonged and repeated contact.

#### ORAL EFFECTS

Tests on similar materials indicate an order of acute oral toxicity.

#### INHALATION EFFECTS

Acute toxicity expected on inhalation.

#### MEDICAL CONDITIONS AGGRAVED BY OVEREXPOSURE

Dermatitis and sensitive skin – this product is not listed as carcinogenic or a potential carcinogen by the national toxicology program, by the I.A.R.C. monographs or by OSHA. Nevertheless, good industrial hygienic practices are recommended.

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### Section 12. Ecological Information

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If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

This product is rapidly biodegradable. Biodegradation is possible within 90 to 120 days in aerobic environments at temperatures above 70°F (21°C).

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### Section 13. Disposal Considerations

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Product as supplied does not meet the characteristics of a hazardous waste as defined in 40 CFR 261.21-24. If mixed with other products waste mixture must be characterized. DO NOT dispose of this product in drains or storm sewers. DO NOT dispose of this product in a landfill without prior solidification. Waste product should be recycled. Consider waste brokering.

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### Section 14. Transportation Information

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PROPER SHIPPING NAME: Petroleum Distillates, nos, Class 3, UN 1268, PG 2 HAZARD  
CLASS: Class 3 Flammable Liquid  
DOT IDENTIFICATION NUMBER: UN1268  
DOT SHIPPING LABEL: DOT Hazardous Material

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### Section 15. Regulatory Information

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#### U.S. FEDERAL REGULATORY INFORMATION

SARA 302 Threshold Planning Quantity: NOT APPLICABLE

SARA 304 Reportable quantity: NOT APPLICABLE

SARA TITLE 3 – Section 311/312 Hazard classes:

- \* Immediate/Acute Health Effects: No
- \* Delayed/Chronic Health Effects: No

- \* Fire Hazard: Yes
- \* Sudden Release of Pressure Hazard: No
- \* Reactivity Hazard: No

EPAT/TSCA Inventory: The components of this product are listed on the EPAT/TSCA inventory of chemicals.

SARA TITLE 3 – Section 313 Supplier notification:

The following chemicals are subject to the reporting requirements of Section 313 of Title 3 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Ethylbenzene CAS # 100-41-4 Up to 1 wt. %

Cumene CAS # 98-82-8 Up to 1 wt. %

Toluene CAS # 108-88-3 Up to 1 wt. %

Xylene CAS # 1330-20-7 Up to 6 wt. %

1,2,4-Trimethylbenzene CAS # 95-63-6 Up to 1 wt. %

Naphthalene CAS # 91-20-3 Up to 0.005 %

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): No chemicals in this product are subject to the reporting requirements of CERCLA Section 101(14)(F).

CANADIAN REGULATORY INFORMATION

The components of this product are listed on the Canadian (DSL) Domestic Substances List.

EUROPEAN (ECC) REGULATORY INFORMATION

The components of this product are listed on the European Inventory of Existing Commercial Substances. EINECS#

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## Section 16. Other Information

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### HAZARDOUS MATERIAL RATINGS

	HMIS	NFPA 704
Health	1	1
Flammability	3	3
Reactivity	0	0

KEY
4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

HMIS – Hazardous Materials Identification System

NFPA 704 – National Fire Protection Association

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