MSDS Material Safety Data Sheet

Revised Date: November 17, 2003

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Lead Supreme 130

Manufactured By:

Kemco Oil & Chemicals

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CAS Registry Number	Not applicable for mixtures.
Synonyms	Motor fuel additive/ Octane booster
Generic/ Chemical Name	Motor Fuel Additive with Tetraethyl Lead.

2 COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Ingredients

Ingredient: Material Description	Amount	C.A.S. Registry Number	Exposure Guidlines
Aromatic Hydrocarbons	70-95 %	**64742-94-5**	PEL (OSHA)-100ppm, 435, MG/M3, 8 hour TWA TLV (ACGIH)- 100ppm,434, MG/M3, 8 hour TWA, A4 STEL 150ppm, 651, MG/M3, A4
Tetraethyl Lead	1.22 %	**78-00-2**	PEL (OSHA)-0.075 MG/M3, as Pb., 8 hour TWA, skin TLV (ACGIH)0.1 MG/M3, as Pb., 8 hour TWA,skin, A4
Dibromoethane	0.355 %	**106-93-4**	PEL (OSHA)-20ppm, 8 hour TWA, 30ppm, ceiling, 50ppm, 5 min. max. TLV (ACGIH) A3
Dichloroethane	0.385 %	**107-06-2**	PEL (OSHA)-50ppm, 8 hour TWA, 100ppm cielintg200ppm for 5 minutes in any 3 hrs. TLV (ACGIH)-10ppm, 40 MG/M3, 8 hour TWA

3 PHYSICAL DATA

Boiling Point: 311-344° f.
Specific Gravity (H20 = 1): 0.87
Melting Point: N/A
Vapor Pressure @ 20° C mm Hg <1
Evaporation Rate (Butyl Acetate =1): 0.19
% Solubility in Water: Not soluble
Appearance and Odor: Slight red color with sweet and/or musty odor.

4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used) 100° F. (PMCC) **Explosive Limits: LEL** 1.0
(% Vol. in air @ 77° f.) **UEL** 6.5

Auto-ignition Temp: 880° f.
Extinguishing Media: Dry chemical, Foam, or Carbon Dioxide.
Special Fire Fighting Procedures: Fire Fighters must wear self contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray. A water stream directed into the fire may cause frothing with subsequent spread of fire.

Unusual Fire And Explosion Hazards: Closed containers may explode due to build up of pressure when exposed to heat. Thermal decomposition or combustion of product may generate irritating and/or toxic gases. Vapor is heavier than air and may travel along the ground or floor and be ignited at locations distant from the source. Tetraethyl lead will form lead fumes when burning.

5 Health Hazard Data and Emergency/ First Aid Procedures

Skin contact with tetraethyl lead may cause skin irritation with discomfort or rash. The compound can be absorbed through the skin in amounts capable of producing toxic effects. Exposure to high vapor concentrations may result in sufficient contact to cause absorption of toxic amounts of tetraethyl lead through the eye and mucous membranes. There are no reports of human sensitization. Eye contact may cause eye irritation with discomfort, tearing or blurring of vision. Inhalation or ingestion may cause subtle central nervous system effects such as insomnia or mood changes, progressing with continued or higher exposures to toxic psychosis with delirium, convulsions or coma.

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold the eyelids open during the flush. Obtain immediate medical attention.

SKIN CONTACT: Speed in removal is important. Removal can best be done by washing the affected area with kerosene or plenty of hand cleaner. Kerosene will dissolve the anti-knock compound and hasten its removal. Soap and water is effective in removing the kerosene and any residue which remains. However, treatment should be delayed in search of kerosene or hand cleaner. If none is readily available, wash immediately with soap and water…call a physician.

INHALATION: Move the victim into fresh air. If the victim has difficulty breathing, administer oxygen. Administer artificial respiration if the victim is not breathing. Obtain immediate medical attention.

INGESTION: Obtain immediate medical attention. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomit into the lungs.

6 REACTIVITY DATA

Stability: Stable.

Stability Conditions to Avoid: Heat, Sparks, and Open Flames.

Incompatibility (Materials to Avoid Contact With): Strong oxidizers, halogens.

Hazardous Decomposition Products: Hazardous gases/ vapors produced are inorganic lead fumes, hydrogen halides.

Hazardous Polymerization: None.

7 SPILL OR LEAK PROCEDURES

Steps for Material Spillage:

Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Wipe up small spills with rags or towels. Put rags or towels in tightly covered containers in a well ventilated area. Large spills should be handled carefully. Put on respiratory protection. Dike or impound spilled liquid. Cover the spill with absorbent compound (e.g., vermiculite, clay, or sand). Use non-sparking tools to sweep or shovel into containers. Cover loosely and remove in a well-ventilated waste area. Repeat sorbent/ sweep cycle until the spill has dried up. Rinse the spill area thoroughly with water. Flush the rinsings to the sanitary sewer or soak them up with absorbent material. Do not discharge undiluted product to the sanitary sewer.

Waste Disposal Methods: Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures. Do not incinerate closed containers.

8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV.

Ventilation: Use local exhaust (e.g., open windows, fans) as needed to keep vapor levels below recommended limits.

Protective Equipment: Wear chemically resistant gloves (Natural rubber, supported PVA, neoprene, nitrile), eye goggles, and clean protective clothing to cover arms and legs and keep exposure to a minimum.

9 SPECIAL PRECAUTIONS

Handling and Storage Precautions

- **KEEP AWAY FROM EXTREME HEAT AND OPEN FLAMES.**
- **DO NOT TAKE INTERNALLY.**
- **AVOID CONTACT WITH EYES, CLOTHING, AND SKIN.**
- **KEEP CONTAINER CLOSED WHEN NOT IN USE.**
- **AVOID BREATHING VAPORS,**
- **USE WITH ADEQUATE VENTILATION.**
- **KEEP OUT OF REACH OF CHILDREN.**
- **AVOID STORAGE IN DIRECT SUNLIGHT**

Shipping Info:

1. **<u>USA Ground</u> (Part #LS4) 32 ounce or smaller containers not to exceed 66 lbs. per box- Consumer Commodity, ORM-D**

2. **<u>All Air Shipments & 55 gallon drums</u>. Flammable Liquid, N.O.S., 3, UN 1993, PG III (Aromatic Solvents, Tetraethyl lead)**

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