

Material Safety Data Sheet

Updated August 19, 2004

Emergency Telephone Number
(402) 714-1400

Section 1 – Product Information

Product Name: E P Concentrate
Chemical Name: Overbased Petroleum Metal Sulfonate
Formula: Proprietary
Product Use: Extreme Pressure Agent for Lubricating Oils

Section 2 – Typical Chemical and Physical Properties

Vapor Pressure (mm Hg): <1
Solubility (in Water): Insoluble
Specific Gravity (H₂O=1): 1.04
Boiling Point F(C): 680(360) – 1040(560)
Evaporation Rate (N-Butyl Acetate=1): <1
Appearance and Odor: Brown Liquid, Slight Hydrocarbon Odor

Vapor Density (Air=1): >1
Melting Point: N/A

Section 3 – Hazardous Components

Component	OSHA		ACGIH	
	PEL/TWA	PEL/Ceiling	TLV/TWA	TLV/STLE

Not applicable

Section 4 – Fire and Explosion Hazard Data

Flash Point Deg C	(Method)	Flammable Limits
>110	ASTM D92	Lower: NA Upper: NA

Extinguishing Media:

Use water fog. Foam. Dry Chemical or CO₂. Do not use a direct stream of water. Produce will float and can be reignited on surface of water.

Special Fire Fighting Procedures and Precautions:

Material will not burn unless preheated. Do not enter confined fire-space without proper protective equipment including a positive-pressure NIOSH-Approved self-contained breathing apparatus. Use water to keep fire exposed containers cool.

Section 5 – Reactivity Data

Stability (Thermal, light, etc.):	Stable
Hazardous Polymerization:	Will not occur
Incompatibility (materials to avoid):	Strong Oxidizers
Conditions to Avoid:	Extreme Heat
Hazardous Decomposition Products:	Carbon Monoxide, Carbon Dioxide, oxides of sulfur are generated on combustion.

Section 6 – Health Hazard Data

Eye Contact:

Lubricating oils are generally considered no more than minimally irritating to the eyes.

Skin Contact:

Lubricating oils are generally considered no more than mildly irritating to the skin. Prolonged or repeated exposure may result in various skin disorders (dermatitis, folliculitis, etc.).

Inhalation:

Inhalation of vapors or oil mist (generally at high temperatures) may result in mild irritation of the upper respiratory tract.

Ingestion:

Lubricating oils are generally considered no more than slightly toxic if swallowed.

Section 7 – Emergency and First Aid Procedures

Eye Contact:

Flush with water for 15 minutes while holding eyelids open. If irritation occurs, seek medical attention.

Skin Contact:

Remove contaminated clothing and wipe off excess. Wash with soap and water. If irritation occurs, seek medical attention.

Inhalation:

Remove victim to fresh air. If breathing is difficult, provide respiratory support and seek medical attention.

Ingestion:

Do not induce vomiting. If uncomfortable, seek medical attention.

Section 8 – Environmental Protection

Spill or leak procedure: Stop source of leak if possible. Dike and contain spill. Remove with vacuum trucks or pump to storage vessels. Soak up residue with absorbent such as clay, sand, etc. Dispose of in accordance with current applicable laws and regulations.

Section 9 – Employee Protection

Respiratory Protection:

No special requirements under ordinary conditions of use and with adequate ventilation. If concentration exceeds occupational exposure limits (Section 3) use a NIOSH-approved respirator.

Protective Clothing:

Normal industrial eye protection, gloves, and other protective clothing as required to minimize contact with skin and eyes.

Section 10 – Transportation Data

Proper Shipping Name:	Hydrocarbon Oil
UN Number:	N/A
CAS Number:	N/A
Special Transportation Notes:	N/A

Section 11 – Comments

This product has not been tested for skin sensitization or long term chronic exposure, therefore the handling procedures and safety precautions on this MSDS should be followed to minimize employee exposure. In any case, good personal hygiene should be observed, including washing after handling.

If used in applications where a mist may be generated, observe TWA/PEL of 5mg/cu. meter for mineral oil mist (OSHA and ACGIH).