

AMERICAN REFINING GROUP INC.
MATERIAL SAFETY DATA SHEET

BRAD PENN® LC 5 MOLY
EP 2 GREASE

PRODUCT CODE: BP-7817

NFPA HAZARD RATING

4 – Extreme
3 – High
2 – Moderate
1 – Insignificant

PRODUCT NFPA HAZARD RATING

Health – 0
Fire – 1
Reactivity - 0

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DIVISION AND LOCATION---SECTION I

Location: BRADFORD, PENNSYLVANIA

77 N. KENDALL AVE, BRADFORD, PA 16701

Emergency Telephone Number: (814) 368-1297

Transportation Emergency: CHEMTREC 1-(800) 424-9300 (U.S. AND Canada)

CHEMICAL AND PHYSICAL PROPERTIES --- SECTION II

Chemical Name: petroleum hydrocarbon plus additives

Formula: not applicable

Hazardous Decomposition Products:

carbon monoxide and carbon dioxide from burning.

oxides of phosphorous from burning oxides of sulfur

Incompatibility (Keep away from):

strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

<u>Product Components</u>	<u>CAS No.</u>	<u>% (Volume)</u>
Lithium 12 Hydroxyoctadecanoate Sebacate Complex	68815-49-6	6 - 12
Mineral Oil	64742-65-0	10 - 20
Mineral Oil	64742-62-7	60 - 70
Zinc Alkyldithiophosphate	68649-42-3	0.5 - 1.5
Molybdenum Disulfide	1317-33-5	3 - 6

Form: semi-solid

Odor: mineral oil

Appearance: grease

Color: gray

Specific Gravity (water=1): 0.89

Boiling Point: greater than 371°C (700°F)

Melting Point: greater than 260°C (500°F)

Solubility in Water (by weight %): negligible at 20°C

Volatile (by weight %): negligible

Evaporation Rate: negligible

Vapor Pressure (mm Hg at 20°C): negligible

Vapor Density (air=1): not applicable

pH (as is): not applicable

Stability: Product is stable under normal conditions

Viscosity SUS at 100°F: Greater than or = to 100

A M E R I C A N R E F I N I N G G R O U P I N C .
M A T E R I A L S A F E T Y D A T A S H E E T

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FIRE AND EXPLOSION DATA---SECTION III

Special Fire Fighting Procedures:

Do not use water except as fog.

Unusual Fire and Explosion Hazards:

Do not cut, weld, braze, solder, drill, grind or expose containers, drums, tanks, etc. of product to heat, flame, sparks, static electricity or other sources of ignition; they may ignite explosively.

Flashpoint: (Method Used) Cleveland open cup greater than 228°C (440°F)

Flammable limits % : not applicable

Extinguishing accents:

Drychemical or Waterfog or CO2 or Foam

Closed containers exposed to fire may be cooled with water.

HEALTH HAZARD DATA---SECTION IV

Permissible concentrations (air):

see COMMENTS section

Chronic effects of overexposure:

no data available

Acute toxicological properties:

no data available

Emergency First Aid Procedures:

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician.

Skin Contact: Remove excess with cloth or paper. Wash thoroughly with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure may be minimal or absent, early surgical treatment within the few hours may significantly reduce the ultimate extent of injury.

Inhalation: Remove victim to fresh air. Call a physician.

If Swallowed: Contact a physician immediately.

SPECIAL PROTECTION INFORMATION---SECTION V

Ventilation Type Required (Local,mechanical,special):

see COMMENTS section

Respiratory Protection (Specify type):

None required under normal use conditions with adequate ventilation. Use NIOSH/MSHA certified respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit of 5 mg/m³ for mineral oil mist (OSHA and ACGIH).

Protective Gloves:

neoprene type

Eve Protection:

chemical glasses or chemical safety goggles, if potential for splashing exists

Other Protective Equipment:

none

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HANDLING OF SPILLS OR LEAKS---SECTION VI

Procedures for Clean-Up:

Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth, sand, or vermiculite. Sweep up and dispose as solid waste in accordance with local, state, and federal regulations.

Waste Disposal:

Dispose of in accordance with all applicable federal, state and local regulations.

SPECIAL PRECAUTIONS---SECTION VII

Precautions to be taken in handling and storage:

Do not handle or store at temperatures over

Maximum Storage Temperature : 60 ° C (140°F)

TRANSPORTATION DATA---SECTION VIII

D.O.T.: Not Regulated

Reportable Quantity: not applicable

Freight Classification: Petroleum Grease

Special Transportation Notes:

None

ENVIRONMENTAL/SAFETY REGULATIONS—SECTION IX

Section 313 (Title III Superfund Amendment and Reauthorization Act):

This product contains the following toxic chemical category(ies) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1998 and 40 CFR Part 372 (percent by weight is provided):

0.5-1.5 % Zinc Alkyldithiophosphate, CAS# 68649-42-3

COMMENTS

All components of this product are on the US TSCA Inventory.

The additive mixtures in this product have been declared a trade secret by the additive manufacturers.

5 mg/m³ for mineral oil mist (OSHA and ACGIH)

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