

MATERIAL SAFETY DATA SHEET
EQUILON MSDS: 01939ET 01/04/99

PREMIUM RB GREASE

TELEPHONE NUMBER:

24 HOUR EMERGENCY ASSISTANCE

EQUIVA SERVICES: 877-276-7283

CHEMTREC: 800-424-9300

GENERAL MSDS ASSISTANCE

877-276-7285

NAME AND ADDRESS:

EQUILON ENTERPRISES LLC

PRODUCT STEWARDSHIP

P.O. BOX 674414

HOUSTON, TX 77267-4414

LEGEND:

N.D. - NOT DETERMINED

N.A. - NOT APPLICABLE

N.T- NOT TESTED

< - LESS THAN

> - GREATER THAN

1. NAME

MATERIAL IDENTITY

Product Code and Name:

01939 PREMIUM RB GREASE

Chemical Name and/or Family or Description:

Industrial Greases

2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

| | | | | |
|------|------|-----|-------|------|
| OSHA | IARC | NTP | OTHER | NONE |
| | | | | X |

Composition: (Sequence Number and Chemical Name)

Seq. Chemical Name

CAS Number

Range in %

| | | | |
|------|--|------------|-------------|
| 01 # | Hydrotreated heavy paraffinic petroleum distillates | 64742-54-7 | 50.00-64.99 |
| 02 # | Solvent-dewaxed heavy paraffinic petroleum distillates | 64742-65-0 | 20.00-34.99 |
| 03 * | Lithium 12-hydroxystearate | 7620-77-1 | 10.00-19.99 |
| 04 * | Trimethyldihydroquinoline, homopolymer | 26780-96-1 | 1.00-2.99 |
| 05 * | Barium dinonyl naphthalene sulfonate | 25619-56-1 | 1.00-2.99 |
| 06 # | Solvent extracted mineral oil | 64741-97-5 | 1.00-2.99 |
| 07 * | Mixed octylated diphenylamine | 68411-46-1 | 1.00-2.99 |
| 08 * | Oleyl diamine (1,3-propanediamine,N-9-octadecenyl) | 7173-62-8 | 1.00-2.99 |

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).

* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA

BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST.

Exposure Limits referenced by Sequence Number in the Composition Section
Seq. Limit

| | | | |
|----|----|-------|-------------------------------|
| 01 | 5 | mg/m3 | TWA-OSHA (MINERAL OIL MIST) |
| 01 | 5 | mg/m3 | TWA-ACGIH (MINERAL OIL MIST) |
| 01 | 10 | mg/m3 | STEL ACGIH (MINERAL OIL MIST) |
| 02 | 5 | mg/m3 | TWA-OSHA (MINERAL OIL MIST) |
| 02 | 5 | mg/m3 | TWA-ACGIH (MINERAL OIL MIST) |
| 02 | 10 | mg/m3 | STEL ACGIH (MINERAL OIL MIST) |

| | | | |
|----|----|-------|---------------------------------|
| 03 | 10 | mg/m3 | TWA-ACGIH- (A4) |
| 04 | 5 | mg/m3 | TWA-OSHA (RESPIRABLE FRACTION) |
| 04 | 15 | mg/m3 | TWA-OSHA (TOTAL DUST) |
| 04 | 10 | mg/m3 | TWA-ACGIH (RESPIRABLE FRACTION) |
| 04 | 3 | mg/m3 | TWA-ACGIH (INHALABLE FRACTION) |
| 06 | 5 | mg/m3 | TWA-OSHA (MINERAL OIL MIST) |
| 06 | 5 | mg/m3 | TWA-ACGIH (MINERAL OIL MIST) |
| 06 | 10 | mg/m3 | STEL ACGIH (MINERAL OIL MIST) |

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:

Semi-solid, blue-green

Odor:

Not determined

WARNING STATEMENT

CAUTION !

MAY CAUSE EYE IRRITATION

HMIS

Health: 0 Reactivity: 0
 Flammability: 1 Special : -

NFPA

Health: 0 Reactivity: 0
 Flammability: 1 Special : -

POTENTIAL HEALTH EFFECTS

| | EYE | SKIN | INHALATION | INGESTION |
|----------------------------|-----|------|------------|-----------|
| Primary Route of Exposure: | X | X | | |

EFFECTS OF OVEREXPOSURE

Acute:

Eyes:

May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin:

Brief contact is not irritating. Prolonged contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort.

Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation:

Product not volatile at ambient temperatures. Vapors or mist in high concentrations, as generated from spraying or heating in an enclosed space, may cause minimal irritation.

Ingestion:

If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

Sensitization Properties:

This product is not expected to be a human skin sensitizer based on animal data.

Chronic:

No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Exposure:

There is no evidence that this product aggravates an existing medical condition.

Other Remarks:

Material from high pressure equipment, pinhole leaks, or high pressure line failure can penetrate the skin and, if not properly treated, can cause severe injury, including disfigurement, loss of function, or even require amputation of the affected area. To prevent such serious injury, immediate medical attention should be sought even if the injection injury appears to be minor.

4. FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:

If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:

If irritation, headache, or drowsiness occurs, remove to fresh air.

Other Instructions:

High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees F):

Not determined.

Flash Point (degrees F):

Not determined.

Flammable Limits (%):

Lower: Not determined.

Upper: Not determined.

Recommended Fire Extinguishing Agents And Special Procedures:

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:

None

Extinguishing Media Which Must Not Be Used:

Not determined.

Special Protective Equipment for Firefighters:

Other than normal protective fire-fighting equipment, no special equipment or procedures required.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:

Contain spill if possible, contain with absorbent materials such as clay or soil, and shovel up. Avoid skin and eye contact.

If more than 508,130 pounds of product is spilled, then report spill according to SARA 304 and/or CERCLA 102(a) requirements, unless product qualifies for the petroleum exemption (CERCLA Section 101(14)).

7. HANDLING AND STORAGE

Precautions to be Taken in**Handling:**

Minimum feasible handling temperatures should be maintained.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)**Eye/Face Protection:**

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:

Workers should wash exposed skin several times daily with soap and water.
Soiled work clothing should be laundered or dry-cleaned.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:

Adequate to meet component occupational exposure limits (see Section 2).

Exposure Limit for Total Product:

None established for product; refer to Section 2 for component exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Semi-solid, blue-green

Odor:

Not determined

Boiling Point (degrees F):

Not determined.

Melting/Freezing point (degrees F):

Not applicable.

Specific Gravity (water=1):

Not determined.

pH of undiluted product:

Not applicable.

Vapor Pressure:

< .1 mmHg

Viscosity:

Not determined.

VOC Content:

Not determined.

Vapor Density (air=1):

Not applicable.

Solubility in Water (%):

< .1

Other: None

10. STABILITY AND REACTIVITY

This Material Reacts Violently With:

(If Others is checked below, see comments for details)

| Air | Water | Heat | Strong Oxidizers | Others | None of These |
|-----|-------|------|------------------|--------|---------------|
| | | | X | | |

Comments:

Do not add or formulate with nitrites. See Section 16, OTHER INFORMATION.

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones, and combustion products or compounds of barium, lithium.

Hazardous Polymerizations: DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**Median Lethal Dose****Oral:**

LD50 > 5.00 g/kg (rat) practically non-toxic

Inhalation:

Not determined.

Dermal:

LD50 > 10.00 g/kg (rabbit) practically non-toxic

Irritation Index, Estimation of Irritation (Species)

Skin:

(Draize) 1.50 /8.0 (rabbit) no appreciable effect

Eyes:

(Draize) 17.00 /110 (rabbit) slightly irritating

Sensitization:

(Buehler) Negative - skin (guinea pig)

Other:

None

12. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form.

Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks

None

13. TRANSPORT INFORMATION

Transportation

DOT:

Proper Shipping Name:

Not regulated

IMDG:

Proper Shipping Name:

Not regulated

ICAO:

Proper Shipping Name:

Not regulated

TDG:

Proper Shipping Name:

Not regulated

14. REGULATORY INFORMATION

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

| Seq. Chemical Name | CAS Number | Range in % |
|--------------------|------------|------------|
|--------------------|------------|------------|

None

Section 302/304 Extremely Hazardous Substances (CONT)

| Seq. TPQ | RQ |
|----------|----|
|----------|----|

None

Section 311 Hazardous Categorization:

| Acute | Chronic | Fire | Pressure | Reactive | N/A |
|-------|---------|------|----------|----------|-----|
|-------|---------|------|----------|----------|-----|

X

Section 313 Toxic Chemical

| Chemical Name | CAS Number | Concentration |
|---------------|------------|---------------|
|---------------|------------|---------------|

| | | |
|--------------------------------------|------------|-----------|
| Barium dinonyl naphthalene sulfonate | 25619-56-1 | 1.00-2.99 |
|--------------------------------------|------------|-----------|

CERCLA 102(a)/DOT Hazardous Substances: (+ indicates DOT Hazardous Substance)

| Seq. Chemical Name | CAS Number | Range in % |
|--------------------|------------|------------|
|--------------------|------------|------------|

| | | |
|-------------------|-----------|-----------|
| 01+ Xylene | 1330-20-7 | 0.01-0.09 |
| 02+ Ethyl benzene | 100-41-4 | 0.00492 |

CERCLA/DOT Hazardous Substances (Sequence Numbers and RQ's):

Seq. RQ

| | |
|-----|------|
| 01+ | 100 |
| 02+ | 1000 |

TSCA Inventory Status:

This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Other:

None.

State Regulations:

California Proposition 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

| Chemical Name | CAS Number |
|---------------|------------|
|---------------|------------|

None

International Regulations:

WHMIS Classification:

Not controlled

Canada Inventory Status:

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:

Not determined.

Australia Inventory Status:

Not determined.

Japan Inventory Status:

Not determined.

15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:

Not determined.

Mobility:

Not determined.

Persistence and Biodegradability:

Not determined.

Potential to Bioaccumulate:

Not determined.

Remarks:

None

16. OTHER INFORMATION

None

THE INFORMATION CONTAINED IN THIS DATA SHEET IS BASED ON THE DATA AVAILABLE TO US AT THIS TIME, AND IS BELIEVED TO BE ACCURATE BASED UPON THAT DATA. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT, FOR PURPOSE OF HAZARD COMMUNICATION. IT IS NOT INTENDED TO CONSTITUTE PRODUCT PERFORMANCE INFORMATION, AND NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND IS MADE WITH RESPECT TO THE PRODUCT, UNDERLYING DATA OR THE INFORMATION CONTAINED HEREIN. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE, AND ARE ENCOURAGED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE THE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, YOU SHOULD CONSULT WITH YOUR LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. WE WILL NOT PROVIDE ADVICE ON SUCH MATTERS, OR BE RESPONSIBLE FOR ANY INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. THE UNDERLYING DATA, AND THE INFORMATION PROVIDED HEREIN

AS A RESULT OF THAT DATA, IS THE PROPERTY OF EQUIVA SERVICES, LLC AND IS NOT TO BE THE SUBJECT OF SALE OR EXCHANGE WITHOUT THE EXPRESS WRITTEN CONSENT OF EQUIVA SERVICES, LLC.

Date: 1999-01-04 New X Revised, Supersedes: 1998-04-14

Inquiries regarding MSDS should be directed to:

Equiva Services LLC
Manager Product Stewardship
P.O. Box 674414
Houston, TX 77267-4414

17. PRODUCT LABEL

Label Date: 1999-01-04

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

01939 PREMIUM RB GREASE

WARNING STATEMENT

CAUTION ! MAY CAUSE EYE IRRITATION
PRECAUTIONARY MEASURES

- Avoid prolonged breathing of vapor, mist, or gas.
- Avoid contact with eyes.
- Keep container closed.
- Wash thoroughly after handling.

FIRST AID

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin Contact:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:

If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:

If irritation, headache, or drowsiness occurs, remove to fresh air.

Note to Physician:

High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

FIRE

In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers. If more than 508,130 pounds of product is spilled, then report spill according to SARA 304 and/or CERCLA 102(a) requirements, unless product qualifies for the petroleum exemption (CERCLA Section 101(14)).

| | Chemical Name | CAS Number | Range in % |
|---|--|------------|-------------|
| # | Hydrotreated heavy paraffinic petroleum distillates | 64742-54-7 | 50.00-64.99 |
| # | Solvent-dewaxed heavy paraffinic petroleum distillates | 64742-65-0 | 20.00-34.99 |
| * | Lithium 12-hydroxystearate | 7620-77-1 | 10.00-19.99 |
| * | Trimethyldihydroquinoline, homopolymer | 26780-96-1 | 1.00-2.99 |
| * | Barium dinonyl naphthalene sulfonate | 25619-56-1 | 1.00-2.99 |
| # | Solvent extracted mineral oil | 64741-97-5 | 1.00-2.99 |

* Mixed octylated diphenylamine 68411-46-1 1.00-2.99
* Oleyl diamine (1,3-propanediamine,N-9-octadecenyl) 7173-62-8 1.00-2.99

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).

* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA
BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL
MIST.

| Pennsylvania Special Hazardous Substance(s) | CAS Number | Range in % |
|---|------------|------------|
|---|------------|------------|

| | | |
|------|--|--|
| None | | |
|------|--|--|

| | | |
|------|--|--|
| HMIS | | |
|------|--|--|

| | | |
|------|--|--|
| NFPA | | |
|------|--|--|

| | | | |
|-----------------|---------------|-----------------|---------------|
| Health: 0 | Reactivity: 0 | Health: 0 | Reactivity: 0 |
| Flammability: 1 | Special : - | Flammability: 1 | Special : - |

Transportation

DOT:

Proper Shipping Name:

Not regulated

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

Name and Address:

Equilon Enterprises LLC

P.O. Box 674414

Houston ,TX 77267-4414

TRANSPORTATION EMERGENCY: (877) 276-7283

CHEMTREC: (800) 424-9300

HEALTH EMERGENCY: (877) 276-7283

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