



**TEXACO  
MATERIAL SAFETY DATA SHEET**

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product.

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**MATERIAL IDENTITY**

Product Code and Name:

**00995 MULTIFAK EP 2**

Chemical Name and/or Family or Description:

Industrial Greases

Manufacturer's Name and Address:

TEXACO LUBRICANTS COMPANY  
A DIVISION OF TEXACO REFINING AND MARKETING INC.  
P.O. Box 4427  
Houston, TX 77210-4427

Telephone Numbers:

Transportation Emergency-Company : (914) 831-3400  
CHEMTREC : (800) 424-9300  
Health Emergency -Company : (914) 831-3400  
General MSDS Assistance : (914) 838-7204  
Technical Information -Fuels : (914) 838-7336  
-Chemical : (512) 459-6543  
-Lubricant/ : (800) 782-7852  
Antifreezes  
-Additives : (713) 235-6278  
-Solvents : (800) 876-3738

**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 #	Lubricating oils (petroleum), C > 25, hydro-treated bright stock-based	72623-83-7	35.00-49.99
02 #	Severely solvent refined, solvent-dewaxed heavy paraffinic petroleum distillates	64742-65-0	35.00-49.99
03	Lithium 12-hydroxystearate	7620-77-1	3.00-9.99
04 *	Fats animal, mixed with vegetable oil, methyl esters, sulfurized	68991-70-8	3.00-9.99
05 *	Zinc dialkyl dithiophosphate	4259-15-8	1.00-2.99

PRODUCT IS NON-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	5.0 mg/m3 TWA-OSHA (MINERAL OIL MIST)
01	5.0 mg/m3 TWA-ACGIH (MINERAL OIL MIST)
01	10.0 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)



**3. HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

Appearance:  
Brown semi-solid  
Odor:  
Not determined

**WARNING STATEMENT**

NONE CONSIDERED NECESSARY

**HMIS**

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

**NFPA**

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

**POTENTIAL HEALTH EFFECTS**

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

**EFFECTS OF OVEREXPOSURE**

**Acute:**

**Eyes:**

May cause minimal irritation, experienced as temporary discomfort.

**Skin:**

Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

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:**

Unknown.

**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:**

Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin 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.

When overheated, product may release hydrogen sulfide (H<sub>2</sub>S) gas. H<sub>2</sub>S concentrations above permissible concentrations can cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, vomiting, diarrhea and pulmonary edema. At concentrations above 300 ppm, respiratory paralysis, causing unconsciousness and death, can occur.

**4. FIRST AID MEASURES**

**Eyes:**

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.



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#### 4. FIRST AID MEASURES (CONT)

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**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.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

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#### 5. FIRE-FIGHTING MEASURES

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**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:**

Hydrogen sulfide (H<sub>2</sub>S) may be released if overheated.

**Extinguishing Media Which Must Not Be Used:**

Not determined.

**Special Protective Equipment for Firefighters:**

Wear full protective clothing and positive pressure breathing apparatus.

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

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**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.

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#### 7. HANDLING AND STORAGE

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**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.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Protective Equipment (Type)**

**Eye/Face Protection:**

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



**8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT)**

**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:**

Brown semi-solid

**Odor:**

Not determined

**Boiling Point (degrees F):**

Not determined.

**Melting/Freezing point (degrees F):**

Not applicable.

**Specific Gravity (water=1):**

.91

**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

**Comments:**

Under extreme temperatures or extended storage periods, hydrogen sulfide (H<sub>2</sub>S) gas may accumulate in the head-space of container.

**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 phosphorus, lithium, sulfur (may include hydrogen sulfide), zinc.

PRODUCT CODE: 00995  
NAME: MULTIFAK EP 2

Date Issued: 12-08-95  
Supersedes: 07-31-95



10. STABILITY AND REACTIVITY (CONT)

Hazardous Polymerizations: DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Median Lethal Dose

Oral:

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

Inhalation:

Not determined.

Dermal:

LD50 Believed to be > 2.00 g/kg (rabbit) practically non-toxic

Irritation Index, Estimation of Irritation (Species)

Skin:

(Draize) Believed to be > .50 - 3.00 /8.0 (rabbit) slightly irritating

Eyes:

(Draize) Believed to be < 15.00 /110 (rabbit) no appreciable effect

Sensitization:

Not determined.

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 evaluated

ICAO:

Proper Shipping Name:  
Not evaluated

TDG:

Proper Shipping Name:  
Not evaluated

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

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N.D. - NOT DETERMINED  
< - LESS THAN

N.A. - NOT APPLICABLE  
> - GREATER THAN

N.T. - NOT TESTED



14. REGULATORY INFORMATION (CONT)

Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
Zinc dialkyl dithiophosphate	4259-15-8	1.00-2.99

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

Seq. Chemical Name	CAS Number	Range in %
None		

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

Seq. RQ
None

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	

States Right-to-know Regulations:

Chemical Name	State Right-to-know
Lithium 12-hydroxystearate	MI
Zinc dialkyl dithiophosphate	CT, IL, LA, NJ, MI

State list: CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island)

International Regulations:

WHMIS Classification:

Not regulated

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 evaluated.

Remarks:

Not evaluated.

PRODUCT CODE: 00995  
NAME: MULTIFAK EP 2

Date Issued: 12-08-95  
Supersedes: 07-31-95



16. OTHER INFORMATION

None

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF TEXACO'S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL TEXACO PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

Date: 12-08-95 New  Revised, Supersedes: 07-31-95  
Date printed: 03-09-96

Inquiries regarding MSDS should be directed to:

Texaco Inc.  
Manager, Product Safety  
P.O. Box 509  
Beacon, N.Y. 12508

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL

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N.D. - NOT DETERMINED  
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N.A. - NOT APPLICABLE  
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PRODUCT CODE: 00995  
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Date Issued: 12-08-95  
Supersedes: 07-31-95

17. PRODUCT LABEL

Label Date: 12-08-95

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.

00995 MULTIFAK EP 2

**WARNING STATEMENT**

NONE CONSIDERED NECESSARY

**PRECAUTIONARY MEASURES**

- Avoid prolonged breathing of vapor, mist, or gas.
- Workers should wash exposed skin several times daily with soap and water.

**FIRST AID**

**Eye Contact:**

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

**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.

	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>
#	Lubricating oils (petroleum), C > 25, hydro-treated bright stock-based	72623-83-7	35.00-49.99
#	Severely solvent refined, solvent-dewaxed heavy paraffinic petroleum distillates	64742-65-0	35.00-49.99
	Lithium 12-hydroxystearate	7620-77-1	3.00-9.99
*	Fats animal, mixed with vegetable oil, methyl esters, sulfurized	68991-70-8	3.00-9.99
*	Zinc dialkyl dithiophosphate	4259-15-8	1.00-2.99

PRODUCT IS NON-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.

<u>Pennsylvania Special Hazardous Substance(s)</u>	<u>CAS Number</u>	<u>Range in %</u>
None		

**HMIS**

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

**NFPA**

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

**Transportation**

DOT:

Proper Shipping Name:  
Not regulated



PRODUCT CODE: 00995  
NAME: MULTIFAK EP 2

Date Issued: 12-08-95  
Supersedes: 07-31-95



17. PRODUCT LABEL (CONT)

Label Date: 12-08-95

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.

Manufacturer's Name and Address:  
TEXACO LUBRICANTS COMPANY  
A DIVISION OF TEXACO REFINING AND MARKETING INC.  
P.O. Box 4427  
Houston, TX 77210-4427

TRANSPORTATION EMERGENCY Company: (914) 831-3400  
CHEMTREC: (800) 424-9300

HEALTH EMERGENCY Company: (914) 831-3400