



Chemical Name: Long term grease

Manufacturer: Falk

Container size: 14.1oz.

Location: VLA

Disposal: Place empty container in the trash.

MATERIAL SAFETY DATA SHEET FOR FALK LONG TERM GREASE (LTG)

INTRODUCTION

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed information contained in this data sheet which we received from sources outside the company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

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

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Code & Name: 02250 – FALK LONG TERM GREASE

Chemical Name and/or Family or Description: Greases

Manufacturer's Name and Address

The Falk Corporation
3001 West Canal Street
Milwaukee, WI 53208-4200

Telephone Numbers:

Transportation Emergency-Company: (877) 276-7283

Chemtrec: (800) 424-9300

Health Emergency-Company: (877) 276-7283

General MSDS Assistance: (414) 342-3131, ext. 4372
Facilities Engineering & Technical Services Department,
MSDS Section.

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	Solvent deasphalted residual petroleum oil ★	64741-95-3	80.00-94.99
02	Butadiene/styrene copolymer †		3.00-9.99
03	Polyethylene ‡	9002-88-4	3.00-9.99
04	Zinc dialkyldithiophosphate ‡	113894-90-9	1.00-2.99
05	Lithium 12-hydroxystearate ‡	7620-77-1	1.00-2.99

★ Component, by definition, is considered hazardous according to OSHA because it carries the permissible exposure limit (PEL) for mineral oil mist.

† Product is non-hazardous according to OSHA (1910.1200).

‡ Component is hazardous according to OSHA.

Exposure Limits Referenced by Sequence Number in the Composition Section

Sequence	Limit
01	5 mg/m ³ TWA-OSHA (Mineral Oil Mist)
01	5 mg/m ³ TWA-ACGIH (Mineral Oil Mist)
01	10 mg/m ³ STEL ACGIH (Mineral Oil Mist)

3. HAZARD IDENTIFICATION

Emergency Overview

Appearance: Dark brown buttery substance.

Odor: Mild additive odor.

Warning Statement

None considered necessary.

HMIS/NFPA Codes

Health=0, Flammability=1, Reactivity=0, Special=NA.

Potential Health effects

Primary Route of Exposure: Eye and skin.

Inhalation/Ingestion=NA.

Effects of Overexposure – Acute

Eyes: May cause minimal irritation, experienced as temporary discomfort.

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: 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 defatting properties, prolonged and 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 (H₂S) gas. H₂S 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.

FALK
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4. FIRST AID MEASURES

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

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, move 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.

5. FIRE-FIGHTING MEASURES

Ignition Temperature - (°F): Not determined.

Flash Point (°F): Not applicable.

Flammable Limits (%): Lower and upper not determined.

Recommended Fire Extinguishing Agents & 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 (H₂S) may be released if overheated.

Special Protective Equipment for Firefighters: 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.

7. HANDLING AND STORAGE

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: Dark brown buttery substance.

Odor: Mild additive odor.

Boiling Point (°F): Not determined.

Melting/Freezing point (°F): Not applicable.

Specific Gravity (water=1): Not determined.

Ph of Undiluted Product: Not applicable.

Vapor Pressure: Not determined.

Viscosity: 918 cSt at 40°C

VOC Content: Not determined.

Vapor Density (air=1): Not determined.

Solubility in Water (%): Not determined.

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: Under extreme temperatures or extended storage periods, hydrogen sulfide (H₂S) 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, sulfur (may include hydrogen sulfide), zinc.

Hazardous Polymerizations: Do not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological Information(Animal Toxicity Data)

Median Lethal Dose

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

Inhalation: Not determined.

Dermal: LD50 >3.00g/kg (rabbit) practically non-toxic.

Irritation Index, Estimation of Irritation (Species)

Skin: (Draize) 0.21/8.0 (rabbit) no appreciable effect.

Eyes: (Draize) 5.00/110 (rabbit) no appreciable effect.

Sensitization: Not determined.

Other: None.

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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

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

Zinc dialkyldithiophosphate 113894-90-9 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

International Regulations:

WHMIS Classification: Not Controlled.

Canada Inventory Status: Not Determined.

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.

16. OTHER INFORMATION

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 the 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 products. You are urged to obtain data sheets for all 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/her legal advisor or the appropriate government agency. We will not undertake to furnish advice on such matters.

Inquiries regarding MSDS should be directed to:

The Falk Corporation
3001 West Canal Street
P.O. Box 492
Milwaukee, WI 53201-0492

Attn: Facilities Engineering & Technical Services Department,
MSDS Section
Phone: (414) 342-3131, ext. 4372

17. PRODUCT LABEL

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.

02250 – FALK LONG TERM GREASE

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.

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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, move 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.

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‡ Component is hazardous according to OSHA.

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.

Pennsylvania Special Hazardous Substance(s):

CAS Number Range in %

None -

HMIS/NFPA Codes: Health=0, Flammability=1, Reactivity=0, Special=NA.

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.

Manufacturer's Name and Address:

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