LUBRI-LOY®
PREMIUM LUBRICANTS & GREASES

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MATERIAL SAFETY DATA SHEET

9014 CSC

IMPACT FG-CSC

CALCIUM SULFONATE COMPLEX FG #2 · FOOD GRADE LUBRICATING GREASE

LUBRI-LOY CATALOG #: 9014 CSC **DATE ISSUED:** 1/18/2010 **REPLACES ISSUE:** New Issue

I PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

Product Name :	IMPACT FG-CSC Calcium Sulfonate Complex FG #2
Product Use	Food Grade Lubricating Grease
Lubri-Loy Catalog #'s	9014 CSC
Date Issued	1/18/2010
Replaces Issue	New Issue
24-Hr. Emergency Phone	CHEMTREC (800) 424-9300/(703) 527-3887

II COMPOSITION / INFORMATION ON INGREDIENTS:

CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
WHITE MINERAL OIL, PETROLEUM	8042-47-5	60-85 %
CALCIUM SULFONATE COMPLEX	Proprietary	15-40 %
CARBONIC ACID CALCIUM SALT (COMMON NAME: CALCIUM CARBONATE)	471-34-1	3-7 %
*TITANIUM DIOXIDE (TiO2)	13463-67-7	<0.5 %

** This chemical(s) is hazardous according to OSHA/WHIMIS criteria*

COMPOSITION COMMENTS

Refer to section eight for exposure limits on ingredients. Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially.

III HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW *:**

Not regarded as a health hazard under current legislation. For further information, please refer to section 11.

Inhalation	Inhalation hazard at room temperature is unlikely due to the low volatility of this product. Heating can generate vapors that may cause respiratory irritation, nausea and headaches.
Ingestion	May cause stomach pain or vomiting.
Skin	Prolonged or repeated contact leads to drying of skin.
Eyes	May be slightly irritating to eyes.
Sensitization	No known information.
Carcinogenicity	OSHA: Not regulated. NTP: Not listed. See Section 11 for carcinogenicity data of ingredients.

Teratogenicity	No known information.
Mutagenicity	No known information.
Health Warnings	INHALATION. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. SKIN CONTACT. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Slightly irritating. INGESTION. Can cause stomach ache and vomiting.
Route of Entry	Inhalation. Skin and/or eye contact. Ingestion.

IV FIRST AID MEASURES:

Inhalation	Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
Eyes	Rinse with water. Contact physician if discomfort continues.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Injection Injury Warning	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 injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.
Ingestion	DO NOT INDUCE VOMITING! Get medical attention immediately!

V FIRE FIGHTING MEASURES:

Flash Point (°C)	> 180 (356°F) OC (Open cup).
Flammability Limit - Lower(%)	N/D
Flammability Limit - Upper(%)	N/D
Extinguishing Media	Water spray, fog or mist. Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.
Special Fire Fighting Procedures	Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.
Unusual Fire & Explosion Hazards	Volume and pressure increases strongly when heated. Risk of container explosion in fire.
Hazardous Combustion Products	Acrid smoke/fumes. Oxides of: Carbon. Sulfur.
Protective Measures in Case of Fire	Self-contained breathing equipment and chemical resistant clothing recommended.

VI ACCIDENTAL RELEASE MEASURES:

Personal Precautions	Minimize skin contact.
Precautions to Protect the Environment	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.
Spill Clean-Up Procedures	Provide good ventilation. Use appropriate protective clothing. Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Do not let washing down water contaminate ponds or waterways. Rinse area with water.

VII HANDLING AND STORAGE:

Handling	Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Containers should be kept tightly closed. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.
Storage Precautions	Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing materials.
Storage Criteria	Chemical storage.

VIII EXPOSURE CONTROLS / PERSONAL PROTECTION:

COMPONENT	STD	TWA	STEL	TWA	STEL
WHITE MINERAL OIL, PETROLEUM	OSHA			5 mg/m3 (oil mist)	
	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
CARBONIC ACID CALCIUM SALT (COMMON NAME: CALCIUM CARBONATE)	OSHA	10 mg/m3 (total)		5 mg/m3 (resp)	
	ACGIH			10 mg/m3	**(e)
TITANIUM DIOXIDE (TiO2)	OSHA			15 mg/m3 (total)	
	ACGIH			10 mg/m3	**A4
	NIOSH	LFC **Ca			

Ingredient Comments	**ACGIH A4: Not Classifiable as a Human Carcinogen. **ACGIH (e): Total dust, containing no asbestos and <1% crystalline silica **NIOSH Ca: Potential Occupational Carcinogen.
Protective Equipment	Protective gloves and Glasses
Engineering Controls	Use engineering controls to reduce air contamination to permissible exposure level.
Ventilation	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
Respirators	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
Protective Gloves	Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.
Eye Protection	Use eye protection.
Protective Clothing	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygienic Work Practices	Wash at the end of each work shift and before eating, smoking and using the toilet.

IX CHEMICAL AND PHYSICAL PROPERTIES:

Appearance/Physical State	Grease.
Color	Cream.
Odor	Mild (or faint). Petroleum.
Solubility Description	Insoluble in water.
Density	0.95 - 1.05 g/cm3 Temperature (°C)25 (77 F)
Vapor Density (air=1)	> 5
Vapor Pressure	< 0.1 mmHg Temperature (°C) 20 (68°F)
Evaporation Rate	< 0.01 Reference BuAc=1

pH-Value, Conc. Solution	N/A

X STABILITY AND REACTIVITY:

Stability	Normally stable.
Conditions to Avoid	Avoid contact with acids and oxidizing substances.
Hazardous Polymerization	Will not polymerize.
Hazardous Decomposition Products	Oxides of: Carbon. Sulfur.

XI TOXICOLOGICAL INFORMATION:

Toxicological Information	No experimental toxicological data on the preparation as such is available.
WHITE MINERAL OIL, PETROLEUM	
Component Toxicological Information	This ingredient is a NF / USP grade White Mineral Oil which meets the requirements of the US FDA as per 21 CFR 172.878 and 21 CFR 178.3620(a).
	> 5000 similar mg/kg (oral rat)
Toxic Dose - LD 50	N/A.
Toxic Conc. - LC 50	LCIUM SULFONATE COMPLEX
Component	No Information Available (NIA).
Toxic Dose - LD 50	No Information Available (NIA).
Toxic Conc. - LC 50	TITANIUM DIOXIDE (TiO2)
Component	Carcinogenicity. WHMIS (Canada) D2A - R49 www.reptox.csst.qc.ca 8/3/2006
Toxicological Data	> 10000 mg/kg (oral rat)
Toxic Dose - LD 50	> 10000 mg/kg (skn rbt)
Toxic Dose - LD 50 Skin	> 6.8 mg/l/4h (inh-rat)
Toxic Conc. - LC 50	CARCINOGENICITY OSHA: Not regulated. NTP: Not listed. IARC-2B: The agent is possibly carcinogenic to humans (limited evidence of carcinogenicity in humans).

XII ECOLOGICAL INFORMATION:

No data on possible environmental effects have been found.

XIII DISPOSAL INFORMATION:

Disposal Method	Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations..

XIV TRANSPORTATION INFORMATION:

DOT Hazard Class	Not regulated.
Identification No.	N/A
TDGR Class	Not Regulated.
Sea Transport Notes	Not regulated per IMDG.
Air Transport Notes	Not regulated per IATA.

XV REGULATORY INFORMATION:

US FEDERAL REGULATIONS

	SARA 302	CERCLA	SARA 313
TITANIUM DIOXIDE (TiO2)	No	No	No
CARBONIC ACID CALCIUM SALT (COMMON NAME: CALCIUM CARBONATE)	No	No	No
WHITE MINERAL OIL, PETROLEUM	No	No	No
CALCIUM SULFONATE COMPLEX	No	No	No

Clean Air Act SARA HAZARD CATEGORIES None

US STATE REGULATIONS

State Regulatory Status CALIFORNIA PROPOSITION 65: This product ***DOES NOT*** contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Controlled Not a controlled product.

Product Classification

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
WHITE MINERAL OIL, PETROLEUM	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
CALCIUM SULFONATE COMPLEX	DSL	Yes	EINECS	Yes	1-122	Yes	Yes	Yes
CARBONIC ACID CALCIUM SALT (COMMON NAME: CALCIUM CARBONATE)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
TITANIUM DIOXIDE (TiO2)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

Canada CEPA All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

USA (TSCA) All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.

Canada (DSL) All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.

Europe (EINECS/ELINCS/NLP) All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS), the European LIst of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing requirements.

Japan (ENCS) All components in this product are listed on the Japan Inventory of Existing and New Chemical Substances (ENCS) or are exempt from ENCS requirements.

Philippines (PICCS) All components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or are exempt from PICCS requirements.

Australia (AICS) All components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt from AICS requirements.

Korea (ECL) All components in this product are listed on the Korea Existing Chemicals List (ECL) or are exempt from KECL requirements.

China (IECS) All components in this product are listed on the China Inventory of Existing Chemical Substances (IECS) or are exempt from IECS requirements.

XVI OTHER INFORMATION:

NFPA-HMIS HAZARD RATING

Health	Irritation, minor residual injury (1) - HMIS/NFPA
Flammability	Burns only if pre-heated (1) - HMIS/NFPA
Reactivity	Normally Stable (0) - HMIS/NFPA
Personal Protection Index	B - Safety Eyewear and Gloves

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our 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 expressed or implied.