



# IXL DIRECT G-710 CALCIUM COMPLEX GREASE

## MATERIAL SAFETY DATA SHEET (MSDS)

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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<b>TRADE NAME</b>	IXL DIRECT G-710 CALCIUM COMPLEX GREASE
<b>PART No.</b>	G-710 (packaged as 14 oz cartridge, 35 lb pails, 120 lb kegs, 400 lb drums)
<b>PRODUCT USE</b>	Lubricating Grease
<b>SUPPLIER</b>	Grease Warehouse 2158 45 <sup>th</sup> Ave. Suite 513 Highland, IN 46322 USA Tel: 1-866- 573-8763 Fax: (219) 714-7958
<b>EMERGENCY TELEPHONE</b>	CHEMTEL U.S. and Canada – 1-800-255-3924 Outside the U.S. and Canada - +01-813-248-0585

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### 2. COMPOSITION, INFORMATION ON INGREDIENTS

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INGREDIENT NAME	CAS No.	WEIGHT
LUBRICANT BASE OIL (PETROLEUM), HIGHLY REFINED**(2)	Mixture	50-80 %
CALCIUM SULFONATE COMPLEX THICKENER – PERFORMANCE PACKAGE	Proprietary	10-20%
IXL DIRECT ANTI-FRICTION METAL CONDITIONER	Proprietary	<1%

**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.

The specific chemical names and composition of the components not disclosed is confidential business information and is withheld as permitted by 29CFR 1910.1200 and various state Right-to-Know laws.

This Product is not a WHMIS Controlled Substance.

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### 3. HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

<b>HEALTH HAZARDS, GENERAL</b>	Exposure to vapors generated at high temperatures may cause respiratory irritation.
<b>SENSITIZATION</b>	No known information.
<b>CARCINOGENICITY</b>	IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.
<b>HEALTH WARNINGS</b>	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. Inhalation of product vapor or mist may cause irritation of mucous membranes in nasal passages and throat. SKIN CONTACT. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating. INGESTION. Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
<b>ROUTE OF ENTRY</b>	Inhalation. Skin and/or eye contact. Ingestion.
<b>MEDICAL SYMPTOMS</b>	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not determined

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### 4. FIRST AID MEASURES

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<b>INHALATION</b>	Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
<b>EYES</b>	Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.
<b>SKIN</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>INGESTION</b>	DO NOT INDUCE VOMITING! Get medical attention immediately!

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### 5. FIRE FIGHTING MEASURES

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<b>FLASH POINT (°C)</b>	246 (475°F) Cd OC (Cleveland open cup).
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	0.9
<b>FLAMMABILITY LIMIT - UPPER(%)</b>	7.0
<b>EXTINGUISHING MEDIA</b>	Use: Carbon dioxide (CO <sub>2</sub> ). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	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.

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<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	Pressure will increase in over heated, closed containers.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Acrid smoke/fumes. Oxides of: Carbon. Sulfur.
<b>PROTECTIVE MEASURES IN CASE OF FIRE</b>	Self-contained breathing equipment and chemical resistant clothing recommended.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>PERSONAL PRECAUTIONS</b>	Minimize skin contact.
<b>PRECAUTIONS TO PROTECT THE ENVIRONMENT</b>	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.
<b>SPILL CLEAN-UP PROCEDURES</b>	Keep all sources of ignition and hot metal surfaces away from spill. Avoid contact with eyes or skin. Place leaking containers in well ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use absorbant material. Avoid discharge to natural water ways.

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## 7. HANDLING AND STORAGE

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<b>HANDLING PRECAUTIONS</b>	Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.
<b>STORAGE PRECAUTIONS</b>	Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.
<b>STORAGE CRITERIA</b>	Chemical storage.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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COMPONENT	STD	TWA	STEL	TWA	STEL
LUBRICANT BASE OIL (PETROLEUM), HIGHLY REFINED**(2)	OSHA			5 mg/m3 (oil mist)	
	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
CALCIUM SULFONATE COMPLEX THICKENER	OSHA	15 mg/m3 (total)	as CaCO3	5 mg/m3 (resp)	as CaCO3
	ACGIH	1 mg/m3 (inh)	NIC 2005	10 mg/m3 **(e)	as CaCO3

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**PROTECTIVE EQUIPMENT****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 recommended to prevent prolonged or repeated contact.

**EYE PROTECTION**

Wear splash-proof eye goggles to prevent any possibility of eye contact.

**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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>APPEARANCE/PHYSICAL STATE</b>	Grease.		
<b>COLOR</b>	Green - Blue		
<b>ODOR</b>	Mild (or faint). Petroleum.		
<b>SOLUBILITY DESCRIPTION</b>	Insoluble in water.		
<b>DENSITY</b>	0.96	<b>Temperature (°C)</b>	15.6 (60°F)
<b>VAPOR DENSITY (air=1)</b>	> 5		
<b>VAPOR PRESSURE</b>	< 0.1 mmHg	<b>Temperature (°C)</b>	20 (68°F)
<b>EVAPORATION RATE</b>	< 0.01	<b>Reference</b>	BuAc=1
<b>pH-VALUE, CONC. SOLUTION</b>	N/A		

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**10. STABILITY AND REACTIVITY**

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<b>STABILITY</b>	Normally stable.
<b>CONDITIONS TO AVOID</b>	Avoid contact with acids and oxidizing substances.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur.
<b>POLYMERIZATION DESCRIPTION</b>	Not applicable
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Oxides of: Carbon. Sulfur.

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## 11. TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION** No experimental toxicological data on the preparation as such is available.

<b>COMPONENT</b>	<b>LUBRICANT BASE OIL (PETROLEUM), HIGHLY REFINED**(2)</b>
<b>TOXICOLOGICAL DATA</b>	Carcinogenicity. IP 346 <3%
<b>TOXIC DOSE - LD 50</b>	> 5000 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 2000 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	N/A.
<b>COMPONENT</b>	<b>CALCIUM SULFONATE COMPLEX THICKENER</b>
<b>TOXIC DOSE - LD 50</b>	> 2000 (estimated) mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 2000 (estimated) mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	> 0.5 (estimated) mg/l (inh-rat)

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## 12. ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION** There is no ecological data on the product itself.

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

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<b>DOT HAZARD CLASS</b>	Not regulated.
<b>TDGR CLASS</b>	Not Regulated.
<b>SEA TRANSPORT NOTES</b>	Not regulated per IMDG.
<b>AIR TRANSPORT NOTES</b>	Not regulated per IATA.

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## 15. REGULATORY INFORMATION

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<b>COMPONENT</b>	<b>US FEDERAL REGULATIONS</b>		
	<b>SARA 302</b>	<b>CERCLA</b>	<b>SARA 313</b>
LUBRICANT BASE OIL (PETROLEUM), HIGHLY REFINED**(2)	No	No	No
CALCIUM SULFONATE COMPLEX THICKENER	No	No	No

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**CLEAN AIR ACT**

**SARA HAZARD CATEGORIES**            None

**US STATE REGULATIONS**

<b>COMPONENT</b>	<b>CA</b>	<b>MA</b>	<b>FL</b>	<b>MN</b>	<b>NJ</b>	<b>PA</b>	<b>RI</b>
LUBRICANT BASE OIL (PETROLEUM), HIGHLY REFINED**(2)					Yes	Yes	

**STATE REGULATORY STATUS**            CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) 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:  
1-Naphthylamine, CAS # 134-32-7  
2-Naphthylamine, CAS # 91-59-8, <1ppm  
PENNSYLVANIA RIGHT-TO-KNOW: This product contains the following chemicals that the state of Pennsylvania has identified as Special Hazardous Substances (SHS), Environmental Hazards (EH), or both (ESHS). The PA regulations require that the MSDS identify all SHS or EH chemicals by chemical name, common name, and CAS Number if they comprise 0.01% or more.  
Benzenesulfonic acid, dodecyl-, sodium salt, Environmental Hazard, CAS# 25155-30-0

**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**

<b>COMPONENT</b>	<b>CAN</b>	<b>US</b>	<b>EU</b>	<b>AUS</b>	<b>JAP</b>	<b>KOR</b>	<b>PLHP</b>	<b>CHN</b>
LUBRICANT BASE OIL (PETROLEUM), HIGHLY REFINED**(2)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
CALCIUM SULFONATE COMPLEX THICKENER	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).  
REGIONAL STATUS: All components in this product are listed on the following Inventories:  
- US Toxic Substances Control Act (TSCA) Inventory  
- Canada Domestic Substances List (DSL)  
- European Inventory of New and Existing Chemical Substances (EINECS)  
- Australian Inventory of Chemical Substances (AICS)  
- Japan Inventory of Existing and New Chemical Substances (ENCS)  
- Korea Existing Chemicals List (ECL)

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- Philippine Inventory of Chemicals and Chemical Substances (PICCS)  
- China Inventory of Existing Chemical Substances (IECS)

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## 16. OTHER INFORMATION

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### NFPA-HMIS HAZARD RATING

<b>HEALTH</b>	Irritation, minor residual injury (1) - HMIS/NFPA
<b>FLAMMABILITY</b>	Burns only if pre-heated (1) - HMIS/NFPA
<b>REACTIVITY</b>	Normally Stable (0) - HMIS/NFPA
<b>PERSONAL PROTECTION INDEX</b>	B - Safety Eyewear and Gloves
<b>REVISION COMMENTS</b>	Section 2: Ingredients
<b>PREPARED BY</b>	Scott G. Adams (Grease Warehouse)
<b>Replacement MSDS of</b>	n/a
<b>DATE</b>	2009-06-10
<b>PRINTING DATE:</b>	2009-06-10
<b>DISCLAIMER</b>	While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the Grease Warehouse makes no warranty with respect thereto and disclaims all liability from reliance therein.