

EGS Chameleon Lithium Complex Grease, # G20000



Product Code
EGS50095

MSDS Date
10/17/2008

1. Identification of the preparation and company

Preparation/Product Name	EGS Chameleon Lithium Complex Grease, # G20000
Product Code	EGS50095
Company Name	Eco Global Solutions 4500 Campus Drive, Suite #208 Newport Beach, CA 92660
Telephone No.	(949) 955-1039
24 hour Emergency Telephone No.	(800) 424-9300
General MSDS	(949) 955-1039

2. Hazard identification of the product

GHS Classification:

Item	Category	Hazard
Flammability	Not classified	Not applicable
Acute Toxicity (mouth)	Not classified	Not applicable
Acute Toxicity (skin)	Not classified	Not applicable
Acute Toxicity (inhalation)	Not classified	Not applicable
Acute Toxicity (ingestion)	Not classified	Not applicable
Skin corrosion/irritation	Not classified	Not applicable
Eye damage/irritation	Not classified	Not applicable
Sensitization (respiratory)	Not classified	Not applicable

Sensitization (skin)	Not classified	Not applicable
Germ toxicity	Not classified	Not applicable
Specific target organ systemic toxicity (single exposure)	1	respiratory system
	2	No target organs for this category.
	3	No target organs for this category.
Specific target organ systemic Toxicity (repeated exposure)	1	respiratory system
	2	No target organs for this category.
Aspiration hazard	Not classified	Not applicable
Harmfulness to aquatic Environment (acute)	Not classified	Not applicable
Harmfulness to aquatic Environment (long term effect)	Not classified	Not applicable
Carcinogenicity	Not classified	Not applicable
Reproductive Toxicity	Not classified	Not applicable
Organic Peroxide	Not classified	Not applicable

Safety Phrases: Not Applicable

3. Composition/information on ingredients

Mixture : Yes

Ingredient	CAS Number	Concentration
Canola oil	120962-03-0	<5
Decanedioic Acid	000111-20-6	<3
Hydroxyl Containing Saturated Fatty Acids	Proprietary or N/A	<5
Lithium hydroxide monohydrate	001310-66-3	<3
Olefin Sulfide	Proprietary or N/A	<3
Petroleum distillates, hydrotreated heavy naphthenic	064742-52-5	<60
Petroleum distillates, hydrotreated middle	064742-46-7	<5
Polybutene	009003-29-6	<5
Polyol Ester of Saturated Fatty Acids	Proprietary or N/A	<20
Zinc Alkyldithiophosphate	Proprietary or N/A	<1

Contains no other ingredients now known to be hazardous as defined by OSHA 29 CFR

1910.1000(z)

4. First aid measures

Inhalation	Remove exposed person to fresh air. If breathing is labored, administer oxygen and obtain immediate medical attention. If irritation persists or if toxic symptoms are observed, get medical attention.
Eye Contact	Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Skin Contact	Wash immediately with soap and water. Remove soiled clothing. Get medical attention if irritation develops. Launder contaminated clothing.
Ingestion	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.

5. Fire-fighting measures

Flash Point °C 200

Slightly Combustible. May release flammable vapors when heated above flash point.

Extinguishing Media	Carbon Dioxide, dry chemical, or foam. Avoid using water.
Combustion Products	Carbon monoxide and asphyxiants.
Special Fire Procedures	Recommend SCBA. Use water only for cooling container. Water may cause splattering, or transport the flame.

6. Accidental release measures

Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see PPE section 8 & 16. Remove sources of ignition. Prevent entry into sewers and waterways. Contain release, pick up free liquid for recycling or disposal. Residual liquid can be absorbed with inert material. Check DOT/CERCLA and other agencies for reporting requirements.

Prevent contamination to soil, waterway and sewer systems.

7. Handling and storage

Handling	Avoid prolonged skin contact, breathing vapors, and contaminated clothing. Use with adequate ventilation. Wear recommended protective equipment. Practice good personal hygiene after handling. Empty containers retain material residue. Do not cut, weld, braze, solder or
-----------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

expose containers to other ignition sources.

Storage Store in closed containers of proper construction. Store away from ignition sources and in areas of good ventilation.

8. Exposure controls and personal protection

Exposure Limits The PEL (OSHA) and the TLV (ACGIH) is 5 mg/m³ for oil mists.

Ventilation Use in areas of adequate ventilation. Use mechanical exhaust to control vapors or mists.

Gloves Nitrile or neoprene gloves are recommended.

Eye Protection Safety glasses, goggles, or face shield are recommended.

Respiratory Protection Use NIOSH/MSHA approved respirator with organic vapor cartridge and dust/mist cartridge is recommended if exposure limit is exceeded. Self-contained breathing apparatus is recommended for confined space entry.

Clothing Long sleeve shirt and apron when potential for skin contact. Wear neoprene or nitrile rubber boots when necessary to avoid contaminating shoes.

9. Physical and chemical properties

Appearance	ORANGE GREASE	Odor	Petroleum Odor
Flash Point °C	200	Boiling Point °C	300
VOC %	NIL	pH	n/d
Specific Gravity	0.919	Solubility in Water	negligible
Vapor Pressure	<0.01 mmHg@20 °C	Vapor Density	Heavier than air.
Evaporation Point	less than ether		
Flammability	Materials classified as DOT Combustible Liquids (Flash Point > 141 °F and < 200 °F) are not regulated by DOT in containers of 110 gallons, or less for domestic shipments.		

10. Stability and reactivity

Stability Material is normally stable at ambient temperature and pressure.

Conditions to Avoid Do not store with strong oxidizing agents. Keep away from heat, sparks, open flame, or all sources of ignition.

Polymerization Will not occur.

Decomposition Carbon dioxide, carbon monoxide.

11. Toxicological information

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr
Canola oil	> 5,000, rat - Category: NA	> 2,000, rabbit - Category: 5	----
Decanedioic Acid	> 5,000, rat - Category: NA	6,000.00, rabbit - Category: NA	----
Hydroxyl Containing Saturated Fatty Acids	----	----	----
Lithium hydroxide monohydrate	----	----	----
Olefin Sulfide	2,000.00, rat - Category: 4	> 2,000, rabbit - Category: 5	----
Petroleum distillates, hydrotreated heavy naphthenic	> 5,000, rat - Category: NA	5,000.00, rabbit - Category: 5	----
Petroleum distillates, hydrotreated middle	> 5,000, rat - Category: NA	3,000.00, rabbit - Category: 5	----
Polybutene	34,600.00, rat - Category: NA	10,250.00, rabbit - Category: NA	----
Polyol Ester of Saturated Fatty Acids	----	----	----
Zinc Alkyldithiophosphate	2,000.00, rat - Category: 4	> 2,000, rabbit - Category: 5	----

Oral Toxicity Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

Eye Irritation Not expected to cause eye irritation.

Skin Irritation Not expected to be a primary skin irritant. Prolonged or repetitive contact may cause irritation.

Carcinogenicity

CAS Number	Ingredient		
120962-03-0	Canola oil	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
000111-20-6	Decanedioic Acid	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
Proprietary or N/A	Hydroxyl Containing Saturated Fatty Acids	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;

		California OSHA	Listed: No
001310-66-3	Lithium hydroxide monohydrate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
Proprietary or N/A	Olefin Sulfide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
064742-52-5	Petroleum distillates, hydrotreated heavy naphthenic	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
064742-46-7	Petroleum distillates, hydrotreated middle	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
009003-29-6	Polybutene	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
Proprietary or N/A	Polyol Ester of Saturated Fatty Acids	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
Proprietary or N/A	Zinc Alkyldithiophosphate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No

12. Ecological information

This material is expected to have adverse effects on marine and plant life. Spills may contaminate drinking water.

13. Disposal considerations

Consult federal, state and local regulations regarding disposal methods, recycle used oil. Do not contaminate used oil with solvents or other chemicals.

14. Transport information

See 49 CFR part 171.8 through 178.510

Proper Shipping Name	Oil, n.o.s
Hazard Class	Not regulated
UN No	Not applicable
Packaging Group	Not applicable
Marine Pollutant	No
GHS Hazard Class	Not applicable
GHS Shipping Information	Not applicable
IMDG	Not Regulated

15. Regulatory information

TSCA:	All components of this product are listed on the United States TSCA (Toxic Control Substance Act) Inventory.
RCRA:	Not RCRA regulated
DSL:	All components of this product are listed on the Canadian Domestic Substances List (DSL).

SARA 311/312 (>0.1%): Not applicable

SARA 313 (>0.1%):
Zinc Alkyldithiophosphate

CERCLA (>0.1%): Not applicable

Inventory - Canada - Non-Domestic Substances List (NDSL): Not applicable

California Proposition 65 Cancer:

Cadmium (<0.01 %)

Ethyl acrylate (<0.01 %)

Lead (<0.01 %)

California Proposition 65

Developmental:

Cadmium (<0.01 %)

Lead (<0.01 %)

California Proposition 65

Female Reproductive:

Lead (<0.01 %)

California Proposition 65 Male

Reproductive:

Cadmium (<0.01 %)

Lead (<0.01 %)

Inventory - Australia -

Inventory of Chemical

Substances (AICS):

Canola oil

Decanedioic Acid

Lithium hydroxide monohydrate

Naphthalenesulfonic acid, dinonyl-, lithium salt

Olefin Sulfide

Petroleum distillates, hydrotreated heavy naphthenic

Petroleum distillates, hydrotreated middle

Phosphoric acid esters, amine salt

Polybutene

Zinc Alkyldithiophosphate

Inventory - Japan Existing and

New Chemical Substances

(ENCS):

Decanedioic Acid (2-878)

Petroleum distillates, hydrotreated heavy naphthenic ()

Petroleum distillates, hydrotreated middle ()

Polybutene (6-774)

Korean Existing Chemicals

Inventory:

Decanedioic Acid

Petroleum distillates, hydrotreated heavy naphthenic

Petroleum distillates, hydrotreated middle

Polybutene

Inventory of Existing Chemical

Substances in China:

Olefin Sulfide
Petroleum distillates, hydrotreated middle
Phosphoric acid esters, amine salt
Polybutene
Zinc Alkyldithiophosphate

**Philippines Inventory of
Chemicals and Chemical
Substances (PICCS) :**

Canola oil
Decanedioic Acid
Lithium hydroxide monohydrate
Naphthalenesulfonic acid, dinonyl-, lithium salt
Olefin Sulfide
Petroleum distillates, hydrotreated heavy naphthenic
Petroleum distillates, hydrotreated middle
Phosphoric acid esters, amine salt
Polybutene
Zinc Alkyldithiophosphate

**Taiwan List of Toxic Chemical
Substances regulated under
Toxic Chemical Substances
Control Act :**

Diphenylamine

**EU REACH: Annex XVII,
Dangerous Substances and
Preparations:**

Petroleum distillates, hydrotreated heavy naphthenic
Petroleum distillates, hydrotreated middle

**Inventory - European Union -
European Inventory of Existing
Commercial Chemical
Substances (EINECS):**

Decanedioic Acid (203-845-5)
Naphthalenesulfonic acid, dinonyl-, lithium salt (248-903-0)
Olefin Sulfide ()
Petroleum distillates, hydrotreated heavy naphthenic (265-155-0)
Petroleum distillates, hydrotreated middle (265-148-2)
Phosphoric acid esters, amine salt ()
Polybutene ()

Polyol Ester of Saturated Fatty Acids ()

Tackifier ()

Zinc Alkyldithiophosphate ()

EU List of Notified Chemical Substances (ELINCS): Not applicable

Risk Phrases: Not Applicable

16. Other information

HMIS	Health:	1	NFPA	Health:	1
	Fire:	1		Fire:	1
	Physical Hazards:	0		Reactivity:	0
	PPE:	C		Special Hazards:	---

This information has been compiled from sources considered to be dependable and is accurate to the best of Eco Global Solutions knowledge. Eco Global Solutions makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Eco Global Solutions assumes no responsibility for injury to recipient or third persons, or for any damage to any property and recipient assumes all such risks.