

Curtis/GlenChem

c o r p o r a t i o n

Material Safety Data Sheet

Conforms to ANSI Z400.1-2004 Standard (for US, Canada, Mexico, Brazil)

1. Product and Company Identification

PRODUCT NAME : C/GC 757-AG (Aerosol Grease) **MSDS No.** : L2757-A
SYNONYMS : None Specifically; possibly "switchgear grease" **DATE** : May 12, 2009

PRODUCER : Curtis/GlenChem Corporation
Eddystone Industrial Park - 2000 Industrial Hwy.
Eddystone, PA 19022-1513

24 Hour EMERGENCY RESPONSE INFORMATION TELEPHONE: CHEMTREC: 800-424-9300

NFPA Rating : Health: 1 Flammability: 4 Reactivity: 0 Special: None
HMIS Classification : Health: 1 Flammability: 4 Reactivity: 0 Personal Protection: B

EMERGENCY OVERVIEW: CAUTION! May be harmful if swallowed. Do not ingest. Wash after handling.

2. Hazards Identification

Physical State : Smooth, Tacky, Semi-solid (typical NLGI #0 grease upon evaporation of propellants)
Odor : Mild alkane
Color : Tan, Amber
Hazard Information Overview : Causes eye, skin and respiratory tract irritation.

Routes of Entry

- Eye Contact** : No known significant effects or critical hazards.
- Skin Contact** : No known significant effects or critical hazards.
- Inhalation** : Inhalation of mists or vapors may irritate respiratory tract
- Ingestion** : May be harmful if swallowed, contains elements that may cause damage to blood and peripheral nervous system.

Aggravated Conditions : Existing dermal ailments, eye and lung conditions.

- Acute Overexposure** : None expected.
- Chronic Overexposure** : Repeated or prolonged exposure to the substance can produce target organ damage (see toxicological information in Section 11).

3. Composition / Information on Ingredients (potentially hazardous only)

CHEMICAL NAME (US) (CANADA) (BRAZIL)	CAS #	Content %
Lubricating Oils (petroleum), C15-30 hydrotreated neutral oil-based	72623-86-0	5 - 15
Triphenyl phosphate	115-86-6	1 - 3
isoparaffinic solvent	64742-47-8	5 - 15
n-heptane	142-82-5	5 - 15
liquified petroleum gas (propane)(aerosol propellant)	74-98-6	5 - 15
n-butane (aerosol propellant)	106-97-8	5 - 15

CHEMICAL NAME (MEXICO)	UN Number	IDLH	H - F - R - Special
Lubricating Oils (petroleum), C15-30 hydrotreated neutral oil-based	Not Regulated	-----	0 - 1 - 0 -- 72623-86-0
Triphenyl phosphate	UN3082	1000 mg/m3	1 - 1 - 0 -- 115-86-6
petroleum distillates, hydrotreated light			1 - 2 - 0 -- 64742-47-8
n-heptane			1 - 3 - 0 -- 142-82-5
liquified petroleum gas (propane)(aerosol propellant)			1 - 3 - 0 -- 74-98-6
n-butane (aerosol propellant)			1 - 3 - 0 -- 106-97-8

4. FIRST AID MEASURES

- Eye Contact** : Check for and remove contact lenses. In case of contact, immediately flush eyes with plenty of water for the standard 20 minute minimum. Get medical attention if irritation occurs.
- Skin Contact** : Wash immediately with soap and water. Get medical attention if irritation occurs.
- Inhalation** : Remove to fresh air. If not breathing, give artificial respiration including mouth-to-mouth. If breathing is difficult, administer oxygen. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Should vomiting occur spontaneously, keep airways clear. Get medical attention. Never give anything by mouth to an unconscious person.
- Notes to Physician** : None

5. FIRE FIGHTING: PRODUCT DATA & PROCEDURES

- Flammability** : May be combustible at extreme high temperature.
- Products of Combustion** : Carbon oxides and water; nitrogen, sulfur and metal oxides may also be produced in lesser quantities.
- Extinguishing Media** : Use an extinguishing agent that is suitable for the surrounding fire.
- Special Exposure Hazards** : No specific flammability hazard.
- Special Protective Equip.** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face mask operated in positive pressure mode.

6. ACCIDENTAL RELEASE REMEDIATION

- Personal Procedures** : Use common sense. Keep unnecessary personnel away. Use suitable protective equipment and protect the environment.
- Environmental Precautions** : Avoid dispersal of spilled material and runoff if any, and do not allow either to contact soil, waterways, drains and sewers.
- Methods for Cleanup** : Vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. If on soil, take an under-layer of soil with the scoop. Avoid dispersal.

7. HANDLING & STORAGE

- Handling** : Do not ingest. Wash thoroughly after handling. Do not eat while using the grease.
- Storage** : Keep container tightly closed when not in use. Keep container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering Controls** : Local exhaust ventilation as necessary to maintain exposures to within applicable limits. U.S. -- Please refer to the ACGIH document, "Industrial Ventilation, A manual of Recommended Practices" most recent edition for details.
- Respiratory Protection** : When exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under U.S. 29 CFR 1910.134.
- Gloves** : Natural rubber or latex
- Skin Protection** : Sufficient to prevent personal skin contact.
- Eye Protection** : Safety glasses - do not get grease on gloves and rub eyes afterward.
- Other Personal Protection** : Eyewash stations in work environment.
- HMIS Code/Personal Protective Equipment : B** : Safety glasses or goggles, impervious gloves. Wash hands and arms thoroughly after handling and before eating, drinking smoking, using lavatory and at end of work day. Follow good industrial hygiene practices.

Component Name:

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Exposure Limits:

ACGIH TLV (U.S., Canada, Mexico, Brazil)

STEL: 10mg/m³ 15 minutes. Form: Mist
TWA: 5 mg//m³ 8 hours. Form: Mist

OSHA PEL Z2 (U.S.)

STEL: 10mg/m³ 15 minutes. Form: Mist
TWA: 5 mg//m³ 8 hours. Form: Mist

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

Triphenyl phosphate
hydrotreated neutral oil-based

ACGIH TLV (U.S., 1/2005, Canada, Mexico, Brazil)

TWA: 5 mg/m³ 8 hours. Form: All Forms

NIOSH REL (U.S., 12/2001)

TWA: 5 mg/m³ 10 hours. Form: All Forms

OSHA PEL (U.S., 8/1997)

TWA: 5 mg/m³ 8 hours. Form: All Forms

NOM-010-STPS (Mexico, 9/2000)

CCT: 6 mg/m³ 15 minutes. Form: All Forms

CPT: 3 mg/m³ 8 hours. Form: All Forms

ACGIH TLV (Canada, [US 1/2005], Brazil)

TWA: 10 mg/m³ 8 hours. Form: All Forms

Diphenylamine

9. PHYSICAL & CHEMICAL PROPERTIES

Physical State	: Semi-solid (grease)	Vapor Pressure	: n/a
Color	: Tan	Vapor Density (Air=1)	: n/a
Odor	: Mild	% Volatile (by Volume)	: 1
pH	: n/a	VOCs (lb/gal)	: not determined
Specific Gravity	: 0.87-0.92 (Water=1)	Solubility in Water	: insoluble in water
Density @ 60° F	: 7.4	Viscosity, Dynamic	: n/a
Flash Point	: 190°C (374°F)	Evaporation Rate (BuAc=1)	: not determined

10. Stability and Reactivity

Stability	: Stable	Conditions of Instability	: None Known
Incompatibility	: Strong Oxidizers	Conditions of Reactivity	: None Known
Hazardous Polymerization	: Will not occur		

11. Toxicological Information

Product/Ingredient Name	Test	Result	Route	Species
Triphenyl phosphate	LD50	3500 mg/kg	Oral	Rat
	LD50	1320 mg/kg	Oral	Mouse
	LD50	>7900 mg/kg	Dermal	Rabbit
Acute Effects				
Eyes		: No known significant effects or critical hazards.		
Skin		: No known significant effects or critical hazards.		
Inhalation		: No known significant effects or critical hazards.		
Ingestion		: May be harmful if swallowed.		
Potential Chronic Health				
Carcinogenic effects		: Not applicable.		
Mutagenic effects		: Not applicable.		
Teratogenic effects		: Not applicable.		
Target Organs:		: Contains material which may cause damage to the following organs: blood and peripheral nervous system.		

12. Ecological Information

Product/Ingredient Name	Species	Period	Result
Triphenyl phosphate	Daphnia magna (EC50)	48 hours	1 mg/l
	Oncorhynchus mykiss (LC50)	96 hours	0.3 mg/l
	Oncorhynchus mykiss (LC50)	96 hours	0.36 mg/l
	Oncorhynchus mykiss (LC50)	96 hours	4 mg/l
	Pimephales promelas (LC50)	96 hours	0.66 mg/l
Environmental Precautions		: Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.	
Products of Degradation		: Carbon Oxides and water. Nitrogen and sulfur oxides and metallic salts may also be produced in some cases.	
Toxicity of the Products of Biodegradation		: The product itself and its products of degradation are not toxic.	

13. Disposal Considerations

Waste Disposal : The generation of waste should be avoided or minimized. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers. Disposal of this product, or cleaning solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local or regional authority requirements.

14. Transport Information

NAERG : 128 ORM-D
Regulatory Information : UN/ IMDG/IATA DOT/TDG -- No AIR or International - Domestic Ground only!

15. Regulatory Information

United States : Not Applicable
HCS Classification : Target Organ Effects
US Federal Regulations : TSCA 8(b) inventory: All components listed.
SARA 302/304/311/312 extremely hazardous substances: NONE
SARA 302/304 emergency planning and notification: NONE
SARA 302/304/311/312 hazardous chemicals: Triphenyl phosphate
SARA 311/312 MSDS distribution - chemical inventory- hazard identification: Triphenyl phosphate: IMMEDIATE (acute) health hazard.
Clean Water Act (CWA) 307/311: NONE
Clean Air Act (CAA) 112 accidental release, regulated flammable substances, regulated toxic substances: NONE

State Regulations -
Pennsylvania RTK : Triphenyl phosphate: (generic environmental hazard); Diphenylamine: (environmental hazard, generic environmental hazard); 2,6-Ditert-butyl-p-cresol: (generic environmental hazard)
Massachusetts RTK : Triphenyl phosphate; Diphenylamine; 2,6-Ditert-butyl-p-cresol; benzotriazole
New Jersey : Lithium 12-hydroxystearate; Octadecanoic Acid, 12-Hydroxy-; Triphenyl phosphate; Diphenylamine; 2,6-Ditert-butyl-p-cresol
California : **Warning:** This product contains a chemical know to the State of California to cause birth defects or other reproductive harm: Diphenylamine -- Cancer: NO, Reproductive: YES

WHMIS (Canada) : Not Controlled under WHMIS (Canada); CEPA DSL: All components listed.
Mexico : HMIS Rating is 1-1-0
International Lists : This product and its ingredients is/are listed on national inventories, or is/are exempted from being listed, Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan (METI), Philippines (RA6969)

16. Other Information

Label Requirements (US) : MAY BE HARMFUL IF SWALLOWED - CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: BLOOD, PERIPHERAL NERVOUS SYSTEM.

Hazardous Material Information System (US) : Health - 1 Fire - 4 Physical Hazard - 0 Personal Protection - B

National Fire Protection Association (US) : Health - 1 Fire - 4 Reactivity - 0 Special - (none)

References : ANSI Z400.1, MSDS Standard, 2004 - Manufacturer's Material Safety Data Sheet - 29CFR Part 1910.1200 OSHA MSDS Requirements - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88/64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994. - Brazil NBR 14725.2001

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Note to Readers: The information contained and the recommendations made in this safety data sheet are based upon data collected and believed by Curtis/GlenChem Corp. to be correct. However, no guarantee or warranty of any kind, expressed or implied is made herein with respect to the product described, and we assume no responsibility for the use thereof. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist now, or will exist in the future.