

# MATERIAL SAFETY DATA SHEET

## CHEMPLUS EP-2-BG

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>TRADE NAME</b>	CHEMPLUS EP-2-BG
<b>PART No.</b>	340400
<b>PRODUCT USE</b>	Lubricating Grease
<b>SUPPLIER</b>	Chemtool Incorporated P.O. Box 538 8200 Ridgefield Road Crystal Lake, IL 60039-0538 USA Tel: (815) 459-1250 Fax: (815) 459-1955
<b>EMERGENCY TELEPHONE</b>	Infotrac U.S. and Canada - (800) 535-5053 Outside the U.S. and Canada - 001-352-323-3500

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
DISTILLATES, PETROLEUM, SOLVENT-REFINED HEAVY PARAFFINIC	64741-88-4	30-50 %
RESIDUAL OILS, PETROLEUM, SOLVENT-REFINED	64742-01-4	10-30 %
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	10-30 %
POLYUREA THICKENER (PROPRIETARY INGREDIENT# 28317)	Proprietary	10-30 %
GEAR OIL ADDITIVE (PROPRIETARY INGREDIENT# 28320)	Proprietary	1-5 %

#### COMPOSITION COMMENTS

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

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Exposure to vapors generated at high temperatures, may cause respiratory irritation.

#### ACUTE EFFECTS

#### CHRONIC EFFECTS

#### SENSITIZATION

No known information.

#### CARCINOGENICITY

IARC: Not listed. OSHA: Not regulated. NTP: Not listed.

**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.** Irritating. **INGESTION.** Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

**OTHER INFORMATION****ROUTE OF ENTRY**

Inhalation. Skin and/or eye contact. Ingestion.

**MEDICAL SYMPTOMS**

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Not determined

**4. FIRST AID MEASURES****INHALATION**

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.

**EYES**

Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.

**SKIN**

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**INGESTION**

**DO NOT INDUCE VOMITING!** Get medical attention immediately!

**5. FIRE FIGHTING MEASURES****FLASH POINT (°C)**

246 Cd OC (Cleveland open cup).

**FLAMMABILITY LIMIT - LOWER(%)**

N/D

**FLAMMABILITY LIMIT - UPPER(%)**

N/D

**EXTINGUISHING MEDIA**

Use: Carbon dioxide (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.

**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**

Pressure will increase in over heated, closed containers.

**HAZARDOUS COMBUSTION PRODUCTS**

Acrid smoke/fumes. Oxides of: Carbon. Nitrogen.

**PROTECTIVE MEASURES IN CASE OF FIRE**

Self-contained breathing equipment and chemical resistant clothing recommended.

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## 6. ACCIDENTAL RELEASE MEASURES

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**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**

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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**HANDLING PRECAUTIONS**

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.

**STORAGE PRECAUTIONS**

Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.

**STORAGE CRITERIA**

Chemical storage.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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COMPONENT	STD	TWA	STEL	TWA	STEL
DISTILLATES, PETROLEUM, SOLVENT-REFINED HEAVY PARAFFINIC	OSHA			5 mg/m3 <sup>**</sup> (1)	
	ACGIH			5 mg/m3 <sup>**</sup> (1)	10 mg/m3 <sup>**</sup> (1)
RESIDUAL OILS, PETROLEUM, SOLVENT-REFINED	OSHA			5 mg/m3 <sup>**</sup> (1)	
	ACGIH			5 mg/m3 <sup>**</sup> (1)	10 mg/m3 <sup>**</sup> (1)
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	OSHA			5 mg/m3 <sup>**</sup> (1)	
	ACGIH			5 mg/m3 <sup>**</sup> (1)	10 mg/m3 <sup>**</sup> (1)

**INGREDIENT COMMENTS**<sup>\*\*</sup>(1) For respirable oil mist.**PROTECTIVE EQUIPMENT**



<b>ENGINEERING CONTROLS</b>	Use engineering controls to reduce air contamination to permissible exposure level.
<b>VENTILATION</b>	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
<b>RESPIRATORS</b>	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
<b>PROTECTIVE GLOVES</b>	Chemical resistant gloves recommended to prevent prolonged or repeated contact.
<b>EYE PROTECTION</b>	Wear splash-proof eye goggles to prevent any possibility of eye contact.
<b>PROTECTIVE CLOTHING</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>HYGIENIC WORK PRACTICES</b>	Wash at the end of each work shift and before eating, smoking and using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE/PHYSICAL STATE</b>	Grease.		
<b>COLOR</b>	Blue green.		
<b>ODOR</b>	Mild (or faint). Petroleum.		
<b>SOLUBILITY DESCRIPTION</b>	Insoluble in water.		
<b>DENSITY</b>	0.89	<b>Temperature (°C)</b>	16
<b>VAPOR DENSITY (air=1)</b>	> 5		
<b>VAPOR PRESSURE</b>	< 0.01 mmHg	<b>Temperature (°C)</b>	20
<b>EVAPORATION RATE</b>	< 0.01	<b>Reference</b>	BuAc=1
<b>pH-VALUE, CONC. SOLUTION</b>	N/A		

## 10. STABILITY AND REACTIVITY

<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

**HAZARDOUS  
DECOMPOSITION PRODUCTS**

Oxides of: Carbon.

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## 11. TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL  
INFORMATION**

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

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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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**DOT HAZARD CLASS**

Non-Hazardous (No label required).

**IDENTIFICATION No.**

N/A

**SEA TRANSPORT NOTES**

Not regulated.

**AIR TRANSPORT NOTES**

Not regulated.

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## 15. REGULATORY INFORMATION

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### US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	N/A	N/A	N/A
POLYUREA THICKENER (PROPRIETARY INGREDIENT# 28317)	N/A	N/A	N/A
GEAR OIL ADDITIVE (PROPRIETARY INGREDIENT# 28320)	N/A	N/A	N/A
RESIDUAL OILS, PETROLEUM, SOLVENT-REFINED	N/A	N/A	N/A
DISTILLATES, PETROLEUM, SOLVENT-REFINED HEAVY PARAFFINIC	N/A	N/A	N/A

**REGULATORY STATUS**

None.

### CLEAN AIR ACT

### US STATE REGULATIONS

**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMIS**

COMPONENT	INVENTORIES							
	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
DISTILLATES, PETROLEUM, SOLVENT-REFINED HEAVY PARAFFINIC	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	
RESIDUAL OILS, PETROLEUM, SOLVENT-REFINED	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
POLYUREA THICKENER (PROPRIETARY INGREDIENT# 28317)	DSL	Yes	Polymer	No	Exempt	No	Yes	No
GEAR OIL ADDITIVE (PROPRIETARY INGREDIENT# 28320)	DSL	Yes	EINECS		Yes			

NOTICE: This product contains one or more components that are NOT LISTED on the following inventories:

Australia AICS  
Korea ECL  
Phillipines PICCS

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**16. OTHER INFORMATION**

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<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>REVISION COMMENTS</b>	Section 2: Ingredients Section 15: Inventory Status
<b>PREPARED BY</b>	Heather Holich James W. Hermann
<b>REVISION No./Repl. MSDS of</b>	2002-02-12
<b>DATE</b>	2004-06-08
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