

MATERIAL SAFETY DATA SHEET

TACKY OGL EP II

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME TACKY OGL EP II

PRODUCT USE Lubricating Grease

SUPPLIER **Varouh Oil, Inc**
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Date of last issue 2007-03-19

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
BITUMEN - PETROLEUM ASPHALT OR RESINS (CAS NUMBERS 8052-42-4 OR 64742-16-1)	Mixture	40-60 %
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	15-30 %
OCTADECANOIC ACID, 12-HYDROXY-, CALCIUM SALT (2:1)	3159-62-4	7-13 %
*GRAPHITE	7782-42-5	5-10 %
*CARBON BLACK	1333-86-4	1-5 %

* 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.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not regarded as a health hazard under current legislation. Exposure to vapors generated at high temperatures may cause respiratory irritation.

SENSITIZATION

No known information.

CARCINOGENICITY

OSHA: Not regulated. NTP: Not listed. See Section 11 for carcinogenicity data of ingredients.

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.

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)

224 (435°F) Cd OC (Cleveland open cup).

FLAMMABILITY LIMIT - LOWER(%)

N/D

FLAMMABILITY LIMIT - UPPER(%)

N/D

EXTINGUISHING MEDIA

Use: Carbon dioxide (CO₂). 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. Sulfur.

PROTECTIVE MEASURES IN CASE OF FIRE Self-contained breathing equipment and chemical resistant clothing recommended.

6. 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	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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
BITUMEN - PETROLEUM ASPHALT OR RESINS (CAS NUMBERS 8052-42-4 OR 64742-16-1)	OSHA	N/E			
	ACGIH	N/E	Not same kind of asphalt		
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	OSHA			5 mg/m3 (oil mist)	
	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
GRAPHITE	OSHA			15 mppcf	
	ACGIH			2 mg/m3 (resp)	except graphite fibers
CARBON BLACK	NIOSH	2.5 mg/m3 (resp)			
	OSHA			3.5 mg/m3	
	ACGIH			3.5 mg/m3	**A4
	NIOSH	3.5 mg/m3	**Ca		

INGREDIENT COMMENTS

**NIOSH Ca: Potential Occupational Carcinogen.

**ACGIH A4: Not Classifiable as a Human Carcinogen.



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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE	Grease.		
COLOR	Black.		
ODOR	Mild (or faint). Petroleum.		
SOLUBILITY DESCRIPTION	Insoluble in water.		
DENSITY	0.90	Temperature (°C)	15.6 (60°F)
VAPOR DENSITY (air=1)	> 5		
VAPOR PRESSURE	< 0.1 mmHg	Temperature (°C)	20 (68°F)
EVAPORATION RATE pH-	< 0.01	Reference	BuAc=1
VALUE, CONC. SOLUTION	N/A		

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
CONDITIONS TO AVOID	Avoid contact with acids and oxidizing substances.
HAZARDOUS POLYMERIZATION	Will not occur.
POLYMERIZATION DESCRIPTION	Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of: Carbon. Sulfur.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

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

COMPONENT **BITUMEN - PETROLEUM ASPHALT OR RESINS (CAS NUMBERS 8052-42-4 OR 64742-16-1)**
TOXICOLOGICAL DATA Carcinogenicity. IP 346 1.7%
TOXIC DOSE - LD 50 N/A. N/A. OSHA: Not regulated. NTP: Not listed. IARC: Not listed as a Group 1, 2A, or 2B
TOXIC CONC. - LC 50
CARCINOGENICITY agent.

COMPONENT **DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC**
TOXICOLOGICAL DATA Carcinogenicity. IP 346 <3%
TOXIC DOSE - LD 50 > 5000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN > 2000 mg/kg (skn rbt)
TOXIC CONC. - LC 50 No Information Available (NIA).
CARCINOGENICITY The petroleum base oil contained in this product has been highly refined to remove aromatics and improve performance characteristics. The base oil is not listed as a carcinogen by NTP, IARC, or OSHA.

COMPONENT **CARBON BLACK**
TOXICOLOGICAL DATA Carcinogenicity. WHMIS (Canada) D2A - R40
TOXIC DOSE - LD 50 Acute toxicity. TCLo 6 hours. Inhalation. Rat. 7 mg/m3
TOXIC DOSE - LD 50 SKIN > 15400 mg/kg (oral rat)
CARCINOGENICITY > 3000 mg/kg (skn rbt)
NTP: Not listed. MAK-3 designation: Substances which cause concern that they could be carcinogenic for man. IARC-2B: The agent is possibly carcinogenic to humans (limited evidence of carcinogenicity in humans).

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

There is no ecological data on the product itself.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14. TRANSPORT INFORMATION

DOT HAZARD CLASS	Not regulated.
IDENTIFICATION No.	N/A
REPORTABLE QUANTITY (RQ)	No
U.S. DOT HAZARD LABEL	No DOT label requirement
TDGR CLASS	Not Regulated.
SEA TRANSPORT NOTES	Not regulated per IMDG.
AIR TRANSPORT NOTES	Not regulated per IATA.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
BITUMEN - PETROLEUM ASPHALT OR RESINS (CAS NUMBERS 8052-42-4 OR 64742-16-1)	No	No	No
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	No	No	No
OCTADECANOIC ACID, 12-HYDROXY-, CALCIUM SALT (2:1)	No	No	No
GRAPHITE	No	No	No
CARBON BLACK	No	No	No

CLEAN AIR ACT

SARA HAZARD CATEGORIES None

US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC						Yes	Yes
CARBON BLACK	C	Yes				Yes	HS

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:

Carbon black (airborne, unbound particles of respirable size), cancer hazard, CAS# 1333-86-4.

Crystalline silica, cancer hazard, CAS# 14808-60-7 <0.5% 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.

Zinc compounds regulated under CERCLA and SARA 313, Environmental Hazard <0.3%

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 PRODUCT CLASSIFICATION Not a controlled product.

COMPONENT	GLOBAL INVENTORIES							
	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
BITUMEN - PETROLEUM ASPHALT OR RESINS (CAS NUMBERS 8052-42-4 OR 64742-16-1)	DSL	Yes	EINECS	Yes	Yes	Yes		Yes
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
OCTADECANOIC ACID, 12-HYDROXY-, CALCIUM SALT (2:1)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
GRAPHITE	DSL	Yes	EINECS	Yes	Exmpt	Yes	Yes	Yes
CARBON BLACK	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).

16. 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
REVISION COMMENTS	Section 2: Ingredients Section 15: US Regulatory Status. Section 15: Inventory Status
PREPARED BY	John Dingess James W. Hermann
Replacement of MSDS generated	2003-08-14
DATE	2007-03-19
DISCLAIMER	While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.

* Information revised since previous MSDS version

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