MATERIAL SAFETY DATA SHEET
ALUMINUM COMPLEX
(ACG EP - ALL GRADES)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME
ALUMINUM COMPLEX (ACG EP - ALL GRADES)

PRODUCT DESCRIPTION
ACG EP - ALL GRADES

SYNONYMS

PRODUCT USE
Lubricating Grease

SUPPLIER
Varouh Oil, Inc.
970 Griswold Road
Elyria, OH 44035
USA Tel: (440)324-5025
Fax: (440) 324-4155

EMERGENCY TELEPHONE
Infotrac
U.S. and Canada - (800) 535-5053
Outside the U.S. and Canada - +01-352-323-3500

2. COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS No.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC</td>
<td>64742-52-5</td>
<td>60-80 %</td>
</tr>
<tr>
<td>PETROLEUM OILS, 150 BRIGHT STOCK (CAS NOS 64742-62-7 &amp; 64742-65-0)</td>
<td>Mixture</td>
<td>10-30 %</td>
</tr>
<tr>
<td>COMPLEX THICKENER</td>
<td>Proprietary</td>
<td>5-10 %</td>
</tr>
<tr>
<td>*PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS</td>
<td>68649-42-3</td>
<td>0.5-1.5 %</td>
</tr>
<tr>
<td>*1-PROPENE-2-METHYL, SULFURIZED</td>
<td>68511-50-2</td>
<td>0.5-1.5 %</td>
</tr>
</tbody>
</table>

* 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

IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.

TERATOGENICITY

No known information.

HEALTH WARNINGS

INHALATION. Oil mist can irritate airways and lungs. 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.

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)

> 204 (400°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


PROTECTIVE MEASURES IN CASE OF

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. Ensure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES
Contain spill. Absorb small amounts. Collect and return large amounts to the shipping container. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
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 workplace.

STORAGE PRECAUTIONS
Store separate from strong acids and oxidizers.

STORAGE CRITERIA
Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>COMPONENT</th>
<th>STD</th>
<th>TWA</th>
<th>STEL</th>
<th>TWA</th>
<th>STEL</th>
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<tbody>
<tr>
<td>DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC</td>
<td>OSHA</td>
<td></td>
<td></td>
<td></td>
<td>5 mg/m³ (oil mist)</td>
<td></td>
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<tr>
<td>PETROLEUM OILS, 150 BRIGHT STOCK (CAS NOS 64742-62-7 &amp; 64742-65-0)</td>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
<td>5 mg/m³ (oil mist) 10 mg/m³ (oil mist)</td>
<td></td>
</tr>
</tbody>
</table>

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.
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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
Amber.

ODOR
Mild (or faint). Petroleum.

SOLUBILITY DESCRIPTION
Insoluble in water.

SOLUBILITY VALUE (g/100g H2O 20°C) < 0.1

BOILING POINT (°C, range) > 177 (350 F)
Pressure 760mmHg

DENSITY
0.89
Temperature (°C) 15.6 (60°F)

VAPOR PRESSURE
< 0.5 mmHg
Temperature (°C) 20 (68°F)

EVAPORATION RATE
< 0.01
Reference BuAc=1

pH 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
No specific hazardous decomposition products noted.

11. TOXICOLOGICAL INFORMATION

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

COMPONENT
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC

TOXICOLOGICAL DATA
Carcinogenicity. IP 346 <3%
TOXIC DOSE - LD 50
> 5000 mg/kg (oral rat)
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TOXIC DOSE - LD 50 SKIN  > 2000 mg/kg (skn rbt)
TOXIC CONC. - LC 50   N/A.
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  PETROLEUM OILS, 150 BRIGHT STOCK (CAS NOS 64742-62-7 & 64742-65-0)

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

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

TRANSPORT INFORMATION

DOT HAZARD CLASS  Not regulated.
TDGR CLASS  Not Regulated.
SEA TRANSPORT NOTES  Not regulated per IMDG.
AIR TRANSPORT NOTES  Not regulated per IATA.

REGULATORY INFORMATION

US FEDERAL REGULATIONS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>SARA 302</th>
<th>CERCLA</th>
<th>SARA 313</th>
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<tr>
<td>1-PROPENE-2-METHYL, SULFURIZED</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS</td>
<td>No</td>
<td>***</td>
<td>N982 - Zn</td>
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<td>No</td>
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REGULATORY STATUS

*** Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

CLEAN AIR ACT

SARA HAZARD CATEGORIES None

US STATE REGULATIONS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CA</th>
<th>MA</th>
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<tr>
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<td>Yes</td>
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<td>PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
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STATE REGULATORY STATUS

CALIFORNIA PROPOSITION 65: This product ***DOES NOT*** contain chemicals 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.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS NOT CONTROLLED: 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. Not a controlled product.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAN</th>
<th>US</th>
<th>EU</th>
<th>AUS</th>
<th>JAP</th>
<th>KOR</th>
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<tbody>
<tr>
<td>DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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<tr>
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<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>ALUMINUM COMPLEX THICKENER</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>9-1678</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
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<td>1-PROPENE-2-METHYL, SULFURIZED</td>
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<td>Yes</td>
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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
PREPARED BY  James W. Hermann
Replacement MSDS of  2004-05-05
DATE  2006-02-13
PRINTING DATE:  2006-02-13

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