

PETRO-GARD® 68

SYNTHETIC HIGH TEMPERATURE CONVEYOR OVEN CHAIN LUBRICANT ISO 220

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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|--------------------------------------|---|
| Product name: | PETRO-GARD® 68 |
| Synonym(s): | Polyol Ester and Additives |
| Supplier Contact information: | PETROCHEM, INC. 6N999 Whispering Trail Road St. Charles, IL 60175 Tel: 630-513-6360 Fax: 630-513-8324 Email: info@petrochem1.com |
| Emergency telephone number: | CHEMTREC (800)-424-9300 International (703) 527-3887 |
| Chemical Family / Use: | High Temperature Oven Chain Lubricant |
| Date Issued: | 01/12/2014 |
| Revision Date/Version: | 01/12/2014 Rev. 1 |

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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|----------------------------------|-------------|
| Eye Damage/Eye Irritation | Category 2B |
|----------------------------------|-------------|

2.2. Label Elements:

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| Signal Word | Warning |
| Hazard Statements | H320 – Causes eye irritation |
| Precautionary Statements: | P264 – Wash face, hands and any exposed skin thoroughly after handling P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 – If eye irritation persists: Get medical advice/attention |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS | Weight % |
|---|-------------|----------|
| Polyol Ester with Lubrication Additives | Proprietary | 99 |
| Amine Phosphate | 80939-62-4 | 1 |

4. FIRST AID MEASURES

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| Ingestion: | If swallowed, observe victim for 24 hours; seek medical attention if indicated. If vomiting occurs, keep head lower than hops to prevent aspiration. |
| Skin: | For skin contact, wipe away excess material with dry towel. Then wash affected areas with plenty of water, and mild soap if available, for several minutes. Get |

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| | medical attention if irritation occurs. |
| Inhalation: | If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. |
| Eyes: | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs. |
| Notes to Physician: | Treatment based on sound judgment of physician and individual reactions of patient. Contains a minimal amount of triphenyl phosphate that has been reported to be a weak cholinesterase inhibitor in humans. Atropine and/or pralidoxime may be antidotal in cases with ingestion of a large amount of this product if cholinesterase inhibition is suspected. |

5. FIRE FIGHTING MEASURES

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| Flash Point: | > 310°C (590°F) |
| Method: | COC |
| Flammable Limits in Air - Upper (%): | Maximum % by volume of vapor in air above which propagation of flame does not occur on contact with a source of ignition: N/D |
| Sensitivity to Mechanical Impact (Y/N): | No |
| Sensitivity to Static Discharge (Y/N): | Sensitivity to static discharge is not expected |
| Extinguishing Media: | Water fog, carbon dioxide, foam, dry chemical |

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| Special Firefighting Procedures: | Containers can build up pressure if exposed to heat (fire). Fire involving large amounts of material should not be approached because individual containers may rupture abruptly causing "fireball" effect. Fire fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Use water spray to cool nearby containers and structures exposed to fire. |
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6. ACCIDENTAL RELEASE MEASURES

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| Action to be taken if material is released or spilled: | Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section. Large quantity spills should be contained and pumped into drums for recovery or disposal. |
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7. HANDLING AND STORAGE

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| Precautions to be taken in handling and storage: Keep container closed when not in use. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each workday. Disposable clothing should be discarded with material. |
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HMIS Hazard Rating Information: (0 = Minimal, 1 = Slight)

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|------------|---|--------------|---|
| Health | 1 | Flammability | 1 |
| Reactivity | 0 | PPE | B |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Engineering Controls: | None required under normal conditions |
|------------------------------|---------------------------------------|

Personal Protection Equipment

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|------------------------------------|---|
| Respiratory Protection: | None required under normal conditions |
| Protective Gloves: | Use gloves as a standard industrial handling procedure |
| Eye and Face Protection: | Wear safety glasses or goggles to protect against exposure. |
| Other Protective Equipment: | None required |
| Ventilation: | No unusual ventilation required |

| Chemical Name | CAS | ACGIH TLV-TWA | ACGIH TLV-STEL | OSHA PEL-TWA | OSHA PEL-STEL | Units |
|---|-------------|---------------|----------------|--------------|---------------|-------|
| Polyol Ester with Lubrication Additives | Proprietary | None | None | None | None | ppm |
| Amine Phosphate | 80939-62-4 | None | None | None | None | ppm |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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|----------------|--------------------------|
| Physical state | Liquid |
| Appearance | Oil |
| Odor | Mild |
| Color | Clear, Yellow-Amber |
| Odor threshold | No information available |

| Property | Values |
|--|--------------------------|
| pH | Not applicable |
| Melting point/freezing point | < -30° C |
| Boiling point | > 315 ° C / 600° F |
| Flash point (Cleveland Open Cup) | 204 ° C / 400 ° F |
| Evaporation rate | No information available |
| Flammability (solid, gas) | No information available |
| Upper/lower flammability or explosive limits | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Relative density | No information available |
| Specific Gravity | < 1.0 |
| Water solubility (20°C) | Insoluble in water |
| Solubility in other solvents | No information available |

| Property | Values |
|--|--------------------------|
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity cSt @ 40°C | 68 |
| Dynamic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Partition coefficient: n-octanol/water | No information available |
| Other information | |
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |
| Density | 8.12 @ 25°C |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

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|---|---|
| Stability: | Stable |
| Hazardous Polymerization: | Will not occur |
| Hazardous Thermal Decomposition/Combustion: | No unusual decomposition products known |
| Incompatibility (Materials to Avoid): | None known |
| Conditions to Avoid: | None known |

11. TOXICOLOGICAL INFORMATION

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|---------------------------|---|
| Acute oral Toxicity LD50: | Not Available |
| Skin Irritation: | Not Available |
| Eye Contact: | Based on the review of component data available in public domain, studies indicate the components are minimally irritating. |
| Sensitization: | Not Available |

- 1 - Based on product test data available in public domain.
- 2 - Based on test data from a similar product.
- 3 - Based on test data from similar products, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

12. ECOLOGICAL INFORMATION

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|--------------------------------------|----------------------|
| Ecotoxicological Information: | No data at this time |
| Chemical Fate Information: | No data at this time |

- 1 - Based on product test data available in public domain.
- 2 - Based on test data from a similar product.
- 3 - Based on test data from similar products, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

13. DISPOSAL CONSIDERATIONS

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| Disposal Method: | As local regulations may vary; all waste must be disposed/recycled/ reclaimed in accordance with federal, state, and local environmental control regulations. |
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14. TRANSPORT INFORMATION

Department of Transportation Information

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|-----------------------|---------------|
| Shipping Name: | Non-regulated |
| Hazard Class: | Non-regulated |
| Label(s): | None |
| UN/NA Number: | Not regulated |
| Placards: | None |

International Transportation Classifications

| | |
|---|---------------|
| IATA Dangerous Goods Regulation (DGR) 55th Edition 2014 | Non-Regulated |
| IMDG, International Maritime Dangerous Goods: | Non-Regulated |

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

All of the components in the product are on the following Inventory lists:

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| TSCA Inventory Status: | All components of this product are listed on the TSCA chemical inventory. |
| EA REACH | Pre-registered |
| DSL/NDSL | Complies |
| AICS | Complies |
| China | Complies |
| Korean (ECL) Inventory Status: | Listed on SCL |
| Japanese (MITI) Inventory Status: | Not Available |
| Philippines (PICCS) Inventory Status: | All components are listed on PICCS |
| EINECS Inventory Status: | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

Federal Regulations:

| | |
|--------------------------------------|--|
| SARA Section 302: | None found |
| SARA (311, 312) Hazard Class: | None |
| SARA (313) Chemicals: | THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL 'TOXIC CHEMICAL RELEASE REPORTING' UNDER SECTION 313 (40 CFR 372) |
| CERCLA Hazardous Substance: | Not a listed EHS |
| CERCLA Reportable Quantity: | No listed reportable quantity |
| California Proposition 65: | NONE: This product does not contain detectable amounts of any chemical known to the State of California to cause cancer; nor birth defects or other productive harm. |

Export

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| SCHDLE B/HTSUS: (Tariff Classification #): | 3403990000 |
| ECCN (Export Commodity Control Number): | EAR99 |
| WHMIS Hazard Class: | Not Available |
| WHMIS Trade Secret: | All components listed on EINECS |

EC Labeling Requirements

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|-------------------------------|---------------|
| EC Required Symbol(s): | None Required |
| EC Safety Phrases: | Not Available |
| EC Risk Phrases: | Not Available |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

15.2 Chemical Safety Assessment

No information available

16. OTHER INFORMATION

Issue Date: 01/12/2015

Revision Date: 01/12/2015

Version: 1

Revision Note: Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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