



PETROCHEM, INC.

SPECIALTY LUBRICANTS

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MATERIAL SAFETY DATA SHEET

PETRO-GARD® 220

ISO 220 EXTREME HIGH TEMPERATURE SYNTHETIC CONVEYOR OVEN CHAIN LUBRICANT



Nonfood Compounds
Program Listed H2

Registration #138124

NSF H-2 registered, meets USDA 1998 H-2 requirements.

Contains no carcinogens and is environmentally friendly.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Petro-Gard® 220
Synonym(s): Polyol Ester and Additives
Manufactured / Supplied by:
PETROCHEM, INC., St. Charles, IL 60175
Tel: 630-513-6360
Fax: 630-513-8324
For Emergency Information contact: Chemtrec: 1.800.424.9300
Formula: Mixed Esters

Date Prepared: 12/05/2005; Updated Review: 04/08/2008

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients are listed if they comprise $\geq 1.0\%$ by weight. "Special Hazardous Substances or Carcinogens" are listed if they comprise $\geq 0.1\%$ by weight.

Non-hazardous components

Chemical Name	CAS	Weight %
Polyol Ester and Additives	Proprietary	100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

No unusual safety, fire, or spill hazards.

Effects From Acute Exposure

Ingestion:	Single dose oral toxicity is relatively low. Small amounts swallowed incidental to normal handling is not likely to cause injury; swallowing amounts larger than that may cause injury.
Skin contact:	May cause mild skin irritation.
Inhalation:	None known.
Eye contact:	May cause mild eye irritation.

Aggravated Medical Conditions: None known.

Subchronic (Target Organ) Effects: None known.

Chronic effects / Carcinogenicity: Not listed in IARC, NTP or 29CFR.

Products / Ingredients:

The ingredients that are carcinogens are listed here, with specific information about their carcinogenicity. None

Principle Routes of Exposure: Oral. Dermal - skin. Eyes.

Other: None known.

4. FIRST AID MEASURES

Ingestion: If swallowed, observe victim for 24 hours; seek medical attention if indicated. If vomiting occurs, keep head lower than hips 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 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.

5. FIRE FIGHTING MEASURES

Flash Point: > 325°C (615°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

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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 work day. Disposable clothing should be discarded with material.

NFPA		HMIS	
Health	1	Health	1
Flammability	1	Flammability	1
Reactivity	0	Reactivity	0
Other	N/A	Other	B

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: None required under normal conditions.

Personal Protection Equipment

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.

Exposure Limits

Chemical Name	CAS	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- STEL	Units
Polyol Ester and Additives	Proprietary	None	None	None	None	ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/A
Vapor Pressure: N/D
Vapor Density (Air = 1): N/D
Freezing Point: N/D
Melting Point: < -30 °C
Physical State: Liquid
Odor: MILD
Color: Clear, Yellow- Amber
Odor Threshold (ppm): N/A
Evaporation Rate (Butyl acetate = 1): N/D
Pounds / Gallon (Water = 8.3): 8.1 @ 25 C
Density @ 25°C (Water = 1): 0.97 @ 25 C
Acid / Alkalinity (MEQ/G): N/D
pH: N/D
VOC (EPA Meth.24) (g/L): N/D
Solubility in Water (20 °C): INSOLUBLE
Solubility in Organic Solvents: N/D
Viscosity: 220 cSt @ 40 °C

10. STABILITY AND REACTIVITY

Stability: STABLE
Hazardous Polymerization: WILL NOT OCCUR
Hazardous Thermal Decomposition / Combustion Products: No unusual decomposition products known
Incompatibility (Materials to Avoid): None known.
Conditions to Avoid: None known.

11. TOXICOLOGICAL INFORMATION

Ingestion: N/A Skin Contact: N/A Eye Contact: N/A
Sensitization: N/A

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data at this time
Chemical Fate Information: No data at this time.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Department of Transportation Information

Shipping Name:	Fatty Acid Ester
Hazard Class:	Non-Regulated
Label(s):	NONE
UN/NA Number:	NONE
Placards:	NONE

International Transportation Classifications

RID, European Railroad Hazard Class:	Not Available
IATA, International Air Transportation:	Not Available
IMDG, International Maritime Dangerous Goods:	NONE

15. REGULATORY INFORMATION

National Regulatory Status

TSCA Inventory Status:	All components of this product are listed on the TSCA Inventory.
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.

International Regulatory Status

Canadian (DSL) Inventory Status:	All components of this product are listed on the Canadian DSL.
WHMIS Hazard Class:	NON-CONTROLLED
WHMIS Trade Secret:	None

Export

SCHDLE B/HTSUS: (Tariff Classification #):	Not Available
ECCN (Export Commodity Control Number):	Not Available
EINECS Inventory Status:	All components listed on EINECS

EC Labeling Requirements

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

Korean (ECL) Inventory Status:	All components listed on ECL
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Japanese (MITI) Inventory Status:	Not Available
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Australian (AICS) Inventory Status:	All components listed on AICS
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Philippines (PICCS) Inventory Status:	All components are listed on PICCS.
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Chinese Chemical Inventory Status:	All components listed on Chinese Chemical Inventory Status.
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16. OTHER INFORMATION

FOR ADDITIONAL INFORMATION CONTACT:

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17. HAZARD ASSESSMENT

Hazard Assessment Information:	None
Same as Another Existing Product:	N/A
Other Information:	None

END OF MSDS