



JAX INC.

Approval Date 2/9/2009
 Supersedes Date 12/18/2008

Material Safety Data Sheet

Section I. Chemical Product and Company Identification			
Product Name/ Trade Name	JAX PERMA-GEAR FG ISO 150, 220, 320, 460 & 680	Product ID No.	PGFGM; PGFGN; PGFGP; PGFGQ; PGFGR
Supplier	JAX INC. W134 N5373 CAMPBELL DRIVE MENOMONEE FALLS, WI 53051 USA	Emergency Contact For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident, Call CHEMTREC: NORTH AMERICA 800-424-9300 INTERNATIONAL +01-703-527-3887 Collect	
Synonym(s)	None		
Chemical Name	Polyalkylene glycol		
Chemical Family	Polyalkylene glycol	Non-Emergency Contact	JAX: 262-781-8850 JAX/FAX: 262-781-3906
Chemical Formula	Mixture		
Material Uses	Lubricant		

Section II. Composition and Information on Ingredients				
Name	PEL/TLV, Source	CAS #	% by Weight	
PROPRIETARY FORMULA. This material is essentially polyalkylene glycol fluid containing antiwear, corrosion & oxidation agents.	None established	Mixture	100.0	
LC ₅₀ , LD ₅₀ of Ingredients	Not available			

Section III. Hazards Identification	
Emergency Overview	Potential health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.
Potential Health Effects:	
Eye Contact	Excess redness of the conjunctiva may occur. May cause irritation, experienced as stinging with excess blinking and tear production.
Skin Contact	SKIN CONTACT: Brief contact is not irritating. Prolonged or repeated contact may cause discomfort and local redness. Prolonged or repeated contact may cause defatting and drying of the skin. SKIN ABSORPTION: No evidence of harmful effects, based on available information.
Ingestion	No evidence of harmful effects, based on available information.
Inhalation	Exposure to a dense atmosphere of aerosolized product, designed to evaluate intentional aerosolization, produced lung injury and delayed deaths in animals. Repeated inhalation of respirable aerosols may cause lung damage, which could impair lung function and the ability to obtain sufficient oxygen supply to the body. Overexposure to vapor, aerosol or mist generated at high temperature may result in eye and respiratory tract irritation, dizziness, nausea and the inhalation of harmful amounts of material.

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Section III. Hazards Identification (cont'd)

HMIS Code	Health: 1	Fire: 1	Physical Hazard: 0	HAZARD RATINGS	
				0 Minimal Hazard 1 Slight Hazard 2 Moderate Hazard	3 Serious Hazard 4 Severe Hazard

Section IV. First Aid Measures

Eye Contact	Immediately flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention.
Skin Contact	Wash skin with soap and water.
Ingestion	If the patient is fully conscious, give two glasses of water. DO NOT induce vomiting. If signs or symptoms of toxicity are present, obtain medical attention. NOTE TO PHYSICIAN: Low toxicity by swallowing. Any material aspirated during vomiting may cause lung injury. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation).
Inhalation	Remove to fresh air.

Section V. Fire and Explosion Data

Autoignition Temperature	Not available	Sensitivity to Impact	Not available
Flash Point	547°F (286°C) min., ASTM D 92	Sensitivity to Static Discharge	Not available
Flammable Limits (Approx.)	LOWER Flammable Limit: Not available	UPPER Flammable Limit:	Not available
Explosion Hazards	See Lower and Upper Flammable Limits		
Products of Combustion	Carbon monoxide, carbon dioxide, smoke and irritating vapors as products of incomplete combustion.		
Firefighting Media and Instructions	<p>MEDIA: Extinguish large fires with water spray or apply alcohol-type or all-purpose foam by manufacturer's recommended techniques. For small fires, use carbon dioxide or dry chemical media.</p> <p>INSTRUCTIONS: Firefighters should wear full protective gear, including helmet. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.</p>		
Special Remarks - Fire and Explosion Hazards	Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Water may be used to keep fire-exposed containers cool until fire is out.		

Section VI. Accidental Release Measures

Release or Spill	Recover free product using non-sparking tools and equipment. Add sand, earth, or other suitable absorbent material to the spill area. Minimize breathing vapors. Minimize skin contact. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if the product has entered or may enter sewers, watercourse, or extensive land areas.
Environmental Impact	Report spills as required to the appropriate authorities. U.S Coast Guard Regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to the Coast Guard toll-free number 800-424-8802.

Section VII. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing vapor, aerosol and mist. Do not swallow. Keep container closed. Use with adequate ventilation. Keep out of reach of children. "Empty" containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Empty container should be promptly returned to a drum conditioner.
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Section VII. Handling and Storage (cont'd)

Storage	Store in a cool, dry place. Do not store near heat, sparks, open flame, pilot lights and other sources of ignition, or where temperature may exceed 120°F (49°C). Do not store in direct sunlight. Keep out of reach of children.
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Section VIII. Exposure Controls and Personal Protection

Respiratory Protection	None required for vapors when used at low temperatures. For aerosols, vapors or mists, a negative-pressure, half-mask respirator approved for dust and mist protection is recommended.
Ventilation	General room ventilation is satisfactory for storage and handling at room temperature. Where exposure to elevated temperatures occur or when vapor or mist is created, local ventilation is needed.
Protective Gloves	Use gloves coated with polyvinyl chloride (PVC).
Eye Protection	Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.
Personal Hygiene	Wash skin thoroughly after contact, before breaks and meals and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.
Engineering Controls	Sudden release of hot organic chemical vapor or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of obvious ignition sources. Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.
Exposure Limit	None established.

Section IX. Physical and Chemical Properties

Appearance/Odor	Amber viscous liquid with little or no odor	Vapor Pressure	Not available
		Vapor Density	Not available
Odor Threshold	Not available	Percent Volatile	Nil
Specific Gravity	Not available	Evaporation Rate	Not available
Density	Not available	Viscosity	Not available
Molecular Weight	Not available	Solubility in Water	Not available
pH	Not available	Coefficient of Water/Oil Distribution	Not available
Boiling Point	Not available	Physical State	Liquid
Freezing/Melting Point	Not available		

Section X. Stability and Reactivity Data

Stability	Stable under normal temperatures and pressures.	Conditions of Reactivity	Not available
Conditions of Instability	Not available		
Conditions and Materials to Avoid	This product is normally unreactive; however, avoid strong bases at high temperatures, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds.		
Hazardous Polymerization	Hazardous polymerization will not occur.		
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, smoke and irritating vapors as products of incomplete combustion.		

Section XI. Toxicological Information

Routes of Entry	Dermal contact, eye contact, inhalation, ingestion.	Ingestion	Not available
Toxicity to Animals	Not available	Inhalation	Not available
Effects of Acute Exposure	Not available	Toxically Synergistic Products	Not available
Acute Effects of Sensitization	Not available		
Chronic Effects on Humans:			
Carcinogenic Effects	This product does not contain a carcinogen or potential carcinogen as listed by NTP, IARC, or OSHA [29 CFR 1910.1200(D)#4].		
Mutagenic Effects	No data available to indicate any components present at greater than 0.1% may present a mutagenic hazard.		

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Section XI. Toxicological Information (cont'd)

Teratogenic Effects	No data available to indicate any components present at greater than 0.1% may present a teratogenic hazard.
Reproductive Effects	No data available to indicate any components present at greater than 0.1% may present a reproductive hazard.

Section XII. Ecological Information

Ecotoxicity	There is no data available on the adverse effects of this material on the environment.
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Section XIII. Disposal Considerations

Waste Disposal	Consult federal, state or local authorities for proper disposal and reporting procedures. All disposals must comply with federal, state and local regulations.
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Section XIV. Transportation Information

U.S. D.O.T.			
Shipping Name:	Not regulated	UN Number:	None
Hazard Class:	None	Packing Group:	None
Remarks	It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.		

Section XV. Regulatory Information

U.S. Federal Regulations:	
CERCLA	Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by 40 CFR 302.4 : Propylene oxide, CAS #75-56-9, present at <=0.5000 ppm; Ethylene oxide, CAS #75-21-8, present at <=0.1000 ppm Ethylene glycol, CAS #107-21-1, present at <=0.1000 ppm
SARA (Section 313)	This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations: None
SARA Extremely Hazardous List	This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List: None
TSCA Inventory	All components of this material are on the U.S. TSCA Inventory.
California Prop. 65	This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm: Propylene oxide, CAS #75-56-9, present at <=0.5000 ppm; Ethylene oxide, CAS #75-21-8, present at <=0.1000 ppm Ethylene glycol, CAS #107-21-1, present at <=0.1000 ppm
International Regulations:	
Canada	All components are in compliance with the Canadian Environmental Protection Act. This product has been classified in accordance with the hazard criteria of the CPR and this MSDS contains all the information required by CPR.
Japan MITI	Not available
Australia	Not available
Switzerland	Not available

Section XVI. Other Information

Approval Date	2/9/2009
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Prepared by	Technical Services 262-781-8850
Sections Revised Since Last Version	Section I

The information and recommendations contained herein are, to the best of JAX INC.'s knowledge and belief, accurate and reliable as of the date issued. JAX INC. makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and JAX INC. shall not be liable for any loss or damage based up on the criteria supplied by the developers of these rating systems, together with JAX INC.'s interpretation of the available data.