



# MATERIAL SAFETY DATA SHEET

CONFORMS TO DIRECTIVE 2001/58/EC AMENDING DIRECTIVE 91/155/EEC

## Section 1. Identification of the Company and the Preparation

Product Name **JAX CRYOGUARD PLUS ISO 68**

Revision Date **6/25/2008**

Supersedes Date **1/16/2008**

Supplier **BEHNKE LUBRICANTS INC.  
W134 N5373 CAMPBELL DRIVE  
MENOMONEE FALLS, WI 53051 USA**

Product No. **23168**

Material Use **Incidental-contact food machinery lubricant**

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## Section 2. Composition / Information on Ingredients

This preparation is classified as not dangerous according to Directive 1999/45/EC and its amendments.

Components listed below either meet the reporting requirements as specified in U.S. 29 CFR 1910.1200 or EU Directive 1999/45/EC as amended, or are reported for informational purposes only.

Ingredient*	%	PEL/TLV, Source	CAS #	EINECS #	EU Hazard Symbol	R-Phrases**
Mixture of severely hydrotreated and hydrocracked base oil (petroleum)	92-97	5 mg/m <sup>3</sup> (oil mist), OSHA	Mixture	Mixture	None	None
Methacrylate copolymer	1-2	N/E	Proprietary	N/E	Xi	R36

\*See Section 11 for LD<sub>50</sub> and LC<sub>50</sub> of ingredients.

\*\*See Section 16 for full text of R-Phrases.

## Section 3. Hazards Identification

Physicochemical Hazards Not physicochemically hazardous per EU Directive 1999/45/EC definitions.

Human Health Hazards See Section 11.

Environmental Hazards No data available

## Section 4. First Aid Measures

Eye Contact	Remove contact lenses, if wearing, and flush eyes with water for 15 minutes. If irritation persists, consult a physician.
Skin Contact	Remove clothing and shoes, if contaminated. Wash skin with soap and water. Wash or clean contaminated clothing before reuse and discard oil-soaked shoes. If irritation persists, consult a physician.
Ingestion	If swallowed, DO NOT induce vomiting. As a precaution, give the person a glass of water to drink and seek medical attention. Never give anything by mouth to an unconscious person. Consult a physician.
Inhalation	If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if coughing or respiratory discomfort occurs.

## Section 5. Firefighting Measures

Flash Point	396°F (202°C) min., ASTM D 92	Autoignition Temperature	N/A
Sensitive to Mechanical Impact	No	Sensitive to Static Discharge	No
Lower Flammability Limit	N/A	Upper Flammability Limit	N/A
Extinguishing Media	Extinguishing media include dry chemical, alcohol foam, and carbon dioxide-type extinguishing agents. Do not use direct stream of water. Water may be used to keep fire-exposed containers cool.		
Special Hazards	Pressure build-up due to heat exposure may cause containers to rupture. Use water spray to keep containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for the firefighters. Leaks/ruptures in high-pressure systems using materials of this type can create a fire hazard when in the vicinity of ignition sources (open flame, pilot lights, sparks or electric arcs).		
Products of Combustion	Carbon monoxide, carbon dioxide, smoke and irritating vapors as products of incomplete combustion.		
Special Protective Equipment for Firefighters	Firefighters should wear full protective clothing, including helmet, and NIOSH-approved self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.		

## Section 6. Accidental Release Measures

Personal Precautions Extinguish all sources of ignition. Provide sufficient ventilation and/or respiratory protection. Wear appropriate protective clothing, gloves, face mask, goggles/glasses to prevent contact with the eyes and skin. See Section 8.

<b>Environmental Precautions</b>	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.
<b>Methods for Clean-Up</b>	Recover free product using non-sparking tools. Add sand, earth, or other suitable absorbent material to the spill area. Dispose of in accordance with national and/or local regulations relating to waste disposal.

## Section 7. Handling and Storage

<b>Handling</b>	Keep away from heat, sparks, open flame or where temperature may exceed 49°C (120°F). Do not throw empty container into fire or trash compactor. Container is not designed to contain pressure; do not use pressure to empty container or it may rupture with explosive force. "Empty" containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, or grind such containers as they may explode and can cause injury or death. Use only with adequate ventilation. Do not breathe vapor or mist. Do not take internally. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not transfer to nor store in an unmarked container. Read label and MSDS before using. Do not smoke when handling or using this product. Do not use in high-pressure systems in the vicinity of flames, sparks and hot surfaces. Empty container should be promptly returned to a drum reconditioner. For industrial use only.
<b>Storage</b>	Store in tightly sealed containers. Store in a cool, dry place out of direct sunlight. Do not store near heat, sparks, open flame, pilot lights, static electricity, or where temperature may exceed 49°C (120°F). Rotate stock.

## Section 8. Exposure Controls / Personal Protection

<b>Occupational Exposure Limit</b>	See Section 2.
<b>Respiratory Protection</b>	Use with adequate ventilation. Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA-approved air-supplied respirator is advised in absence of proper environmental control.
<b>Ventilation</b>	Use in a well-ventilated area. See Engineering Controls.
<b>Protective Gloves</b>	Any lined non-permeable rubber gloves.
<b>Eye Protection</b>	Chemical splash goggles or face shield are advised when eye contact may occur.
<b>Personal Hygiene</b>	Wash skin thoroughly after contact, before breaks and meals and at the end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

## Section 9. Physical and Chemical Properties

<b>Appearance/Odor</b>	Clear lube oil with little or no odor	<b>Vapor Pressure</b>	Not available
<b>pH</b>	Not available	<b>Solubility in Water</b>	Nil
<b>Boiling Point</b>	700°F (371°C)	<b>Density</b>	Not available
<b>Oxidizing Properties</b>	Not an oxidizer	<b>Viscosity</b>	Not available
<b>Percent Volatile</b>	Nil	<b>Vapor Density</b>	Heavier than air
<b>Coefficient of Water/Oil Distribution</b>	N/A	<b>Evaporation Rate</b>	Not available
<b>Partition Coefficient: n-octanol/water</b>	N/A	<b>Physical State</b>	Liquid

## Section 10. Stability and Reactivity

<b>Conditions and Materials to Avoid</b>	Avoid heat, sparks, open flames and oxidizing materials.
<b>Hazardous Polymerization</b>	Hazardous polymerization will not occur.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, smoke and irritating vapors as products of incomplete combustion.

## Section 11. Toxicological Information

<b>Routes of Entry</b>	Skin contact, eye contact, ingestion and inhalation.
<b>Skin</b>	May cause slight irritation or redness upon repeated or prolonged contact.
<b>Eye</b>	May cause slight irritation and redness.
<b>Ingestion</b>	Ingestion may cause irritation of the digestive tract. Aspiration into lungs can cause pneumonitis, which can be fatal.
<b>Inhalation</b>	

following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit.

**Acute Toxicity / LD<sub>50</sub> and LC<sub>50</sub> of Ingredients**

Ingredient	LD <sub>50</sub>	LC <sub>50</sub>
Mixture of severely hydrotreated and hydrocracked base oil (petroleum)	Oral/Rat >5000 mg/kg	Oral/Rat >5000 mg/kg
Methacrylate copolymer	N/A	N/A

**Chronic Toxicity / Carcinogenicity**

Ingredient	CAS #	NTP Known Carcinogen	NTP Anticipated Carcinogen	IARC Group
Mixture of severely hydrotreated and hydrocracked base oil (petroleum)	Mixture	No	No	No
Methacrylate copolymer	Proprietary	No	No	No

**Section 12. Ecological Information**

Ecotoxicity	N/A	Bioaccumulative Potential	N/A
Mobility	N/A	Persistence and Degradability	N/A

**Section 13. Disposal Considerations**

**Waste Disposal** Consult national or regional authorities for proper disposal and reporting procedures. All disposals must comply with national and regional regulations.

**Section 14. Transportation Information**

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

**U.S. D.O.T.**

**Proper Shipping Name:** Not regulated  
**UN Number:** None  
**Hazard Class:** None  
**Packing Group:** None  
**Remarks** None

**Land Transport ADR/RID**

**Proper Shipping Name** Not regulated  
**UN Number** None  
**Hazard Class** None  
**Packing Group** None

**Maritime Transport IMDG**

**Proper Shipping Name** Not regulated  
**IM Number** None  
**IMDG Code** None  
**Packing Group** None

**Air Transport IATA**

**Proper Shipping Name** Not regulated  
**UN Number** None  
**Hazard Class** None  
**Packing Group** None  
**Remarks** None



**Section 15. 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 :  
None

**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.

#### State Regulations

**California Prop. 65** WARNING: This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm:  
< 0.005 ppm cadmium compounds; < 0.005 ppm lead compounds; < 0.01 ppm arsenic compounds

#### European Community Regulations

The content and format of this Material Safety Data Sheet are in accordance with Commission Directive 2001/58/EC, amending for the second time Commission Directive 91/155/EEC.

#### European Community Label Requirements

**Danger Symbol(s)** None

**S-Phrase(s)** S23: Do not breathe gas/fumes/vapor/spray  
S24/25: Avoid contact with skin and eyes

**R-Phrase(s)** R44: Risk of explosion if heated under confinement

#### Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations (CPR)* and the MSDS contains all of the information required by the *CPR*.

### Section 16. Other Information

**Component R-Phrase(s)** R36: Irritating to eyes

**HMIS® Ratings** Health: **1** Fire: **1** Physical Hazard: **0**  
HMIS® Ratings: 0 = Minimal Hazard; 1 = Slight Hazard; 2 = Moderate Hazard; 3 = Serious Hazard; 4 = Severe Hazard

**Abbreviations that May Be Used in this Document** N/A = Not available  
N/E = Not established

**Sections Revised** New MSDS format

**Revision Date** 6/25/2008

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\*\*\* END OF MSDS \*\*\*



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