



# 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 POLY-PLATE EP-2**

Revision Date **12/1/2008**

Supersedes Date **11/30/2008**

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

Product No. **09502**

Material Use Lubricant

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In Case of Emergency CHEMTREC: 1-800-424-9300 (North America) +01-703-527-3887 Collect (International)

## Section 2. Composition / Information on Ingredients

This preparation is classified as 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**
Lubricating oils (petroleum), base oils, highly refined (<3% PAH by IP346)	60-80	5 mg/m <sup>3</sup> (oil mist), OSHA	Mixture	Mixture	Xi	None
Calcium carbonate	7-13	10 mg/m <sup>3</sup> , OSHA	471-34-1	207-439-9	None	None
Limestone	5-10	10 mg/m <sup>3</sup> , OSHA	1317-65-3	215-279-6	None	None
Cyclohexylamine	1-5	40 mg/m <sup>3</sup> , OSHA	108-91-8	203-629-0	C	R10-21/22-34

\*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. 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! Get medical attention immediately!

Inhalation If exposed to excessive levels of material in the air, move the exposed person to fresh air. If breathing is difficult, give oxygen; seek medical attention if respiratory difficulties continue. If not breathing, give artificial respiration and seek medical attention immediately.

## Section 5. Firefighting Measures

Flash Point 475°F (246°C), ASTM D 92

Autoignition Temperature N/A

Sensitive to Mechanical Impact No

Sensitive to Static Discharge N/A

Lower Flammability Limit N/A

Upper Flammability Limit N/A

Extinguishing Media Carbon dioxide (CO<sub>2</sub>), dry chemical, sand, dolomite, alcohol-resistant foam, and water spray, fog or mist.

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. Avoid water in straight hose stream as it will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.

Products of Combustion Carbon monoxide and carbon dioxide.

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.

**Environmental Precautions** 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.

**Methods for Clean-Up** 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

**Handling** Keep away from heat, sparks and other sources of ignition. Ventilate well; avoid breathing vapors. Use approved respirator if air contamination is about accepted level. DO NOT reuse empty containers without reconditioning. Do not store or mix with strong oxidizers. Keep container closed when not in use. Avoid contact with eyes, skin and clothing. Wash hands after handling and before eating. Do not smoke when using this product. Eye wash and emergency shower must be available at the workplace.

**Storage** Do not store near heat, sparks, flame, strong acids and oxidizers, or other incompatibles. Keep containers closed when not in use.

## Section 8. Exposure Controls / Personal Protection

**Occupational Exposure Limit** See Section 2.

**Respiratory Protection** 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.

**Ventilation** Use in a well-ventilated area. See Engineering Controls.

**Protective Gloves** Chemical-resistant gloves are recommended to prevent prolonged or repeated contact. Use protective gloves made of neoprene, nitrile, polyethylene or PVC.

**Eye Protection** Chemical splash goggles or face shield are advised when eye contact may occur.

**Personal Hygiene** 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.

**Engineering Controls** If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended oil mist exposure limits.

## Section 9. Physical and Chemical Properties

<b>Appearance/Odor</b>	Blue semi-solid with mild petroleum odor	<b>Vapor Pressure</b>	<0.01 mm Hg @ 20°C
<b>pH</b>	N/A	<b>Solubility in Water</b>	Negligible
<b>Boiling Point</b>	N/A	<b>Density</b>	0.89 - 0.90 g/ml @ 60°C
<b>Oxidizing Properties</b>	Not an oxidizer	<b>Viscosity</b>	N/A
<b>Percent Volatile</b>	Not available	<b>Vapor Density</b>	>5 (air = 1)
<b>Coefficient of Water/Oil Distribution</b>	N/A	<b>Evaporation Rate</b>	<0.01 (butyl acetate = 1)
<b>Partition Coefficient: n-octanol/water</b>	N/A	<b>Physical State</b>	Semi-solid

## Section 10. Stability and Reactivity

**Conditions and Materials to Avoid** Avoid heat, sparks, open flames, acids and oxidizing materials.

**Hazardous Polymerization** Hazardous polymerization will not occur.

**Hazardous Decomposition Products** Carbon monoxide and carbon dioxide.

## Section 11. Toxicological Information

**Routes of Entry** Skin contact, eye contact, ingestion and inhalation.

**Skin** Prolonged or repeated contact leads to drying of skin.

**Eye** May cause irritation and redness.

**Ingestion** Ingestion may cause irritation of the digestive tract. Aspiration into lungs can cause pneumonitis, which can be fatal.

**Inhalation** Not expected to present an inhalation exposure risk at ambient temperatures. If vapors or mists are created upon heating or by mechanical means, those vapors or mists may cause irritation of the breathing passages.

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

Ingredient	LD <sub>50</sub>	LC <sub>50</sub>
Lubricating oils (petroleum), base oils, highly refined (<3% PAH by IP346)	Oral/Rat > 5000 mg/kg	N/A
Calcium carbonate	Oral/Rat = 6450 mg/kg	N/A
Limestone	N/A	N/A
Cyclohexylamine	Oral/Rat = 156 mg/kg	N/A

**Chronic Toxicity /  
Carcinogenicity**

Ingredient	CAS #	NTP Known Carcinogen	NTP Anticipated Carcinogen	IARC Group
Lubricating oils (petroleum), base Mixture oils, highly refined (<3% PAH by IP346)		No	No	No
Calcium carbonate	471-34-1	No	No	No
Limestone	1317-65-3	No	No	No
Cyclohexylamine	108-91-8	No	No	No

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	N/A	<b>Bioaccumulative Potential</b>	N/A
<b>Mobility</b>	N/A	<b>Persistence and Degradability</b>	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.**

<b>Proper Shipping Name:</b>	Not regulated
<b>UN Number:</b>	None
<b>Hazard Class:</b>	None
<b>Packing Group:</b>	None
<b>Remarks</b>	None

**Land Transport ADR/RID**

<b>Proper Shipping Name</b>	Not regulated
<b>UN Number</b>	None
<b>Hazard Class</b>	None
<b>Packing Group</b>	None

**Maritime Transport IMDG**

<b>Proper Shipping Name</b>	Not regulated
<b>IM Number</b>	None
<b>IMDG Code</b>	None
<b>Packing Group</b>	None

**Air Transport IATA**

<b>Proper Shipping Name</b>	Not regulated
<b>UN Number</b>	None
<b>Hazard Class</b>	None
<b>Packing Group</b>	None
<b>Remarks</b>	None



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**Section 15. Regulatory Information****U.S. Federal Regulations**

<b>CERCLA</b>	Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by 40 CFR 302.4 : Cyclohexylamine, CAS # 108-91-8 (RQ = 10000 lbs.)
<b>SARA (Section 313)</b>	This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations: None
<b>SARA Extremely Hazardous List</b>	This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List: None
<b>TSCA Inventory</b>	All components of this material are on the U.S. TSCA Inventory.
<b>State Regulations</b>	
<b>California Prop. 65</b>	This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm: Crystalline silica, CAS # 14808-60-7, <0.1% Benzenamine, 4,4'-methylenebis-, CAS # 101-77-9, <10 ppm n-Naphthylamine, CAS # 134-32-7, <1 ppm

### 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

<b>Danger Symbol(s)</b>	Xi 
<b>S-Phrase(s)</b>	S36/37/38: Wear suitable protective clothing, gloves and eye/face protection
<b>R-Phrase(s)</b>	R22: Harmful if swallowed R25: Toxic if swallowed R36/37/38: Irritating to eyes, respiratory system and skin R44: Risk of explosion if heated under confinement

<b>Canada</b>	This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations (CPR)</i> and the MSDS contains all of the information required by the <i>CPR</i> .
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### Section 16. Other Information

<b>Component R-Phrase(s)</b>	R10: Flammable R21/22: Harmful in contact with skin and if swallowed R34: Causes burns
<b>HMIS® Ratings</b>	Health: <b>1</b> Fire: <b>1</b> Physical Hazard: <b>0</b> HMIS® Ratings: 0 = Minimal Hazard; 1 = Slight Hazard; 2 = Moderate Hazard; 3 = Serious Hazard; 4 = Severe Hazard
<b>Abbreviations that May Be Used in this Document</b>	N/A = Not available N/E = Not established
<b>Sections Revised</b>	New MSDS format
<b>Revision Date</b>	12/1/2008

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



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