

<b>MATERIAL SAFETY DATA SHEET</b>				ADDRESS: 5835 Harper Rd Solon, OH 44139	
<b>IDENTIFICATION-PRODUCT</b>	Product Name <b>High Solids Die Pin Lubricant</b>		Code No. <b>328 - -</b>		Emergency Phone Number (s) Business: (800) 237-1440 Other: (440) 542-0250 – Fax
	Chemical Name: <b>Lubricating Grease</b>				Date: <b>January 27, 2009</b>
	Synonyms: <b>DIECO Die Makers Grease</b>				Chemical Family: <b>Hydrocarbon</b>
<b>INGREDIENTS</b>	MATERIALS OR COMPONENTS		% W	CAS NUMBER	CARCINOGEN OSHA OR IARC
	Lithium 12-hydroxyoctadecanoate sebacate complexes		6 - 8	68919-36-8	
	Mineral Oil		40 - 50	64741-88-4	
	Mineral Oil		25 - 35	64742-01-4	
	Block Copolymer		< 1	25038-32-8	
	Polyethylene		< 1	26221-73-8	
	Calcium Carbonate		3 - 5	1317-65-3	
	Zinc Sulfide		4	1314-98-3	
	Zinc Oxide		8	1314-13-2	
	Zinc Naphthenate 14.5		1	Mixture	
	Alkylated Diphenylamines		< 1	68411-46-1	
	Elco 355		< 3	Proprietary	
Functional V-422		< 0.1	Mixture		
Non Restricted.					
<b>PHYSICAL PROPERTIES</b>	Boiling Point / Range °C > 700 °F		Melting Point N/A °C °F		Freezing Point N/A °C \ °F
	Specific Gravity (H2O=1) 0.95 @ / 16 °C		Vapor Pressure (mm Hg) N/A @ °C °F		Molecular Weight (Calculated) N/A
	Solubility in H2O NIL		% Volatiles By Volume 0		Evaporation Rate N/A <input type="checkbox"/> Ether=1 <input type="checkbox"/> Water=1 <input type="checkbox"/> Butylacetate=1
	Appearance and Odor Cream Semi-Solid Bland				Other
<b>FIRE AND EXPLOSION DATA</b>	Flash Point °C 430 °F		Test Method D-92		Flammable Limits N/A Lower % Upper %
	Autoignition Temperature/Fire Point °C 480 °F				
	EXTINGUISHING MEDIA <input type="checkbox"/> Water-Spray <input type="checkbox"/> Water-Fog <input type="checkbox"/> Water-Stream <input type="checkbox"/> CO2 <input type="checkbox"/> Dry Chemical <input type="checkbox"/> Alcohol Foam <input type="checkbox"/> Foam <input type="checkbox"/> Earth or Sand				
	SPECIAL FIRE FIGHTING PROCEDURES <input type="checkbox"/> Do Not Enter Building <input type="checkbox"/> Allow Fire To Burn <input type="checkbox"/> Water May Cause Frothing <input type="checkbox"/> Do Not Use Water				
UNUSUAL FIRE AND EXPLOSION HAZARDS <input type="checkbox"/> Dust Explosion Hazard <input type="checkbox"/> Sensitive To Shock <input type="checkbox"/> Contamination <input type="checkbox"/> Temperature <input type="checkbox"/> Other (Specify): None					
<b>REACTIVITY</b>	STABILITY <input type="checkbox"/> Stable <input type="checkbox"/> Unstable		CONDITIONS CONTRIBUTING TO INSTABILITY <input type="checkbox"/> Thermal Decomposition <input type="checkbox"/> Photo Degradation <input type="checkbox"/> Polymerization <input type="checkbox"/> Contamination		
	INCOMPATIBILITY – AVOID CONTACT WITH <input type="checkbox"/> Strong Acids <input type="checkbox"/> Strong Alkalies <input type="checkbox"/> Strong Oxidizers <input type="checkbox"/> Other (Specify):				
	HAZARDOUS DECOMPOSITION PRODUCTS – THERMAL AND OTHER (LIST) Oxides of carbon, sulfur & nitrogen if burned.				
	CONDITIONS TO AVOID <input type="checkbox"/> Heat <input type="checkbox"/> Open Flames <input type="checkbox"/> Sparks <input type="checkbox"/> Ignition Sources <input type="checkbox"/> Other (Specify):				

<b>SPILL OR LEAK</b>	STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED <input type="checkbox"/> Flush With Water <input type="checkbox"/> Absorb With Sand Or Inert Material <input type="checkbox"/> Neutralize <input type="checkbox"/> Sweep Or Scoop Up And Remove <input type="checkbox"/> Keep Upwind. Evacuate Enclosed Spaces <input type="checkbox"/> Prevent Spread Or Spill <input type="checkbox"/> Dispose of Immediately <input type="checkbox"/> Other (Specify):
	WASTE DISPOSAL METHOD – <i>CONSULT FEDERAL, STATE, OR LOCAL AUTHORITIES FOR PROPER DISPOSAL PROCEDURES</i> <b>Incinerate</b>

Before using product, read and follow directions and precautions on product label and bulletins.

<b>TOXICITY</b>	CONDITIONS TO AVOID: <b>Excessive Skin Contact</b>																									
	PRIMARY ROUTES OF ENTRY <input type="checkbox"/> INHALATION <input type="checkbox"/> SKIN CONTACT <input type="checkbox"/> OTHER (SPECIFY):																									
This product contains no carcinogens or mutagens as defined by OSHA or IARC. All components are listed on the TSCA Inventory, and Canadian DSL Chemical Inventory. This Product contains no controlled substance under WHMIS.																										
<b>SARA Title III, Section 313, Reportable Quantities:</b>																										
<b>WHMIS Ingredient Disclosure, Reportable Quantities:</b>																										
<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Compound</th> <th style="width: 25%;">CAS#</th> <th style="width: 25%;">% Wt.</th> <th style="width: 25%;">Compound</th> <th style="width: 25%;">CAS#</th> <th style="width: 25%;">% Wt.</th> </tr> </thead> <tbody> <tr> <td>Zinc Oxide</td> <td>1314-13-2</td> <td>8.0</td> <td>Zinc Oxide</td> <td>1314-13-2</td> <td>8.0</td> </tr> <tr> <td>Zinc Sulfide</td> <td>1314-98-3</td> <td>4.0</td> <td>Zinc Sulfide</td> <td>1314-98-3</td> <td>4.0</td> </tr> <tr> <td>Zinc Compounds</td> <td>N/A</td> <td>1.0</td> <td>Zinc Compounds</td> <td>N/A</td> <td>1.0</td> </tr> </tbody> </table> This product is made from severely hydrotreated base stock.			Compound	CAS#	% Wt.	Compound	CAS#	% Wt.	Zinc Oxide	1314-13-2	8.0	Zinc Oxide	1314-13-2	8.0	Zinc Sulfide	1314-98-3	4.0	Zinc Sulfide	1314-98-3	4.0	Zinc Compounds	N/A	1.0	Zinc Compounds	N/A	1.0
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<b>HEALTH HAZARD INFORMATION</b>	PERMISSIBLE EXPOSURE LIMIT (SPECIFY IF TLV/TWA OR CEILING © )		OTHER:																							
	ACGIH	None Established	OSHA    None Established																							
	IRRITATION <input type="checkbox"/> SKIN <input type="checkbox"/> SEVERE <input type="checkbox"/> MODERATE <input type="checkbox"/> MILD (TRANSIENT) <input type="checkbox"/> EYE <input type="checkbox"/> SEVERE <input type="checkbox"/> MODERATE <input type="checkbox"/> MILD (TRANSIENT)																									
	CORROSIVITY <input type="checkbox"/> SKIN <input type="checkbox"/> 4 HRS. (DOT) <input type="checkbox"/> 24 HRS. (CPSC) <input type="checkbox"/> EYE <input type="checkbox"/> MAY CAUSE BLINDNESS <input type="checkbox"/> NOT CORROSIVE																									
	SENSITIZATION <input type="checkbox"/> SKIN <input type="checkbox"/> RESPIRATORY <input type="checkbox"/> NONE		INHALATION EFFECTS    N/A <input type="checkbox"/> NARCOTIC EFFECT <input type="checkbox"/> CYANOSIS <input type="checkbox"/> ASPHYXIAN																							
	LUNG EFFECTS (SPECIFY) N/A																									
	OTHER (SPECIFY) <input type="checkbox"/> REPEATED CONTACT-SKIN DEFATTER <input type="checkbox"/> OTHER (SPECIFY): N/A																									
	EMERGENCY FIRST AID INGESTION <input type="checkbox"/> INDUCE VOMITING <input type="checkbox"/> DO NOT INDUCE VOMITING <input type="checkbox"/> GIVE PLENTY OF WATER <input type="checkbox"/> GET MEDICAL ATTENTION <input type="checkbox"/> OTHER (SPECIFY):																									
	DERMAL <input type="checkbox"/> FLUSH WITH SOAP AND WATER <input type="checkbox"/> GET MEDICAL ATTENTION <input type="checkbox"/> CONTAMINATED CLOTHING – REMOVE AND LAUNDRER <input type="checkbox"/> CONTAMINATED SHOES – DESTROY <input type="checkbox"/> OTHER (SPECIFY):																									
	EYE CONTACT <input type="checkbox"/> FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MIN. <input type="checkbox"/> GET MEDICAL ATTENTION <input type="checkbox"/> OTHER (SPECIFY):																									
INHALATION <input type="checkbox"/> REMOVE TO FRESH AIR <input type="checkbox"/> IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION <input type="checkbox"/> GIVE OXYGEN <input type="checkbox"/> GET MEDICAL ATTENTION <input type="checkbox"/> OTHER (SPECIFY): N/A																										
<b>SPECIAL PROTECTION INFORMATION</b>	VENTILATION REQUIREMENTS – <i>Always maintain exposure below permissible exposure limits</i> <input type="checkbox"/> CONSULT AN INDUSTRIAL HYGIENIST OR ENVIRONMENTAL HEALTH SPECIALIST <input type="checkbox"/> LOCAL EXHAUST <input type="checkbox"/> USE WITH ADEQUATE VENTILATION <input type="checkbox"/> CHECK FOR AIR CONTAMINANT AND OXYGEN DEFICIENCY <input type="checkbox"/> OTHER (SPECIFY):																									
	EYE <input type="checkbox"/> SAFETY GLASSES <input type="checkbox"/> GOGGLES <input type="checkbox"/> FACE SHIELD <input type="checkbox"/> HAND (GLOVE TYPE) <input type="checkbox"/> BUTYL RUBBER <input type="checkbox"/> POLYVINYL ALCOHOL <input type="checkbox"/> OTHER (SPECIFY): <input type="checkbox"/> POLYVINYL CHLORIDE <input type="checkbox"/> NEOPRENE <input type="checkbox"/> NATURAL RUBBER <input type="checkbox"/> POLY-ETHYLENE																									
	RESPIRATOR TYPE – <i>Use only NIOSH / MESA approved equipment</i> <input type="checkbox"/> SELF-CONTAINED <input type="checkbox"/> SUPPLIED AIR <input type="checkbox"/> CAN OR CARTRIDGE GAS OR VAPOR <input type="checkbox"/> FILTER-DUST, FUME, MIST <input type="checkbox"/> OTHER (SPECIFY): N/A																									
	OTHER PROTECTIVE EQUIPMENT <input type="checkbox"/> RUBBER BOOTS <input type="checkbox"/> APRON <input type="checkbox"/> OTHER (SPECIFY): N/A																									

SPECIAL PRECAUTIONS	<p>PRECAUTIONARY NOTES</p> <p><input type="checkbox"/> WASH THOROUGHLY AFTER HANDLING    <input type="checkbox"/> DO NOT GET IN EYES OR ON CLOTHING    <input type="checkbox"/> DO NOT BREATHE DUST, VAPOR, MIST, GAS    <input type="checkbox"/> KEEP CONTAINER CLOSED    <input type="checkbox"/> KEEP AWAY FROM SPARKS, AND OPEN FLAMES    <input type="checkbox"/> STORE IN TIGHTLY CLOSED CONTAINER</p> <p><input type="checkbox"/> DO NOT STORE NEAR COMBUSTIBLES    <input type="checkbox"/> KEEP FROM CONTACT WITH CLOTHING AND OTHER COMBUSTIBLE MATERIALS    <input type="checkbox"/> EMPTY CONTAINER MAY CONTAIN HAZARDOUS RESIDUE    <input type="checkbox"/> USE EXPLOSION PROOF EQUIPMENT    <input type="checkbox"/> OTHER (SPECIFY):</p>
	<p>OTHER HANDLING AND STORAGE CONDITIONS <b>None</b></p>
PLEASE NOTE	<p>"The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, Summit MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUEING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use."</p>