



TRIANGLE BIOMEDICAL SCIENCES, INC.

3014 CROASDAILE DRIVE • DURHAM, NORTH CAROLINA 27705-2507 • USA • 919.384.9393 • FAX 919.384.9595 • E-MAIL: tbs@trianglebiomedical.com

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION						
Product Name	Low temperature grease					
Product Code (Catalog Number)	GR					
Product Category (Chemical Name)	silicone grease					
Product Appearance and Odor	pink, slight odor					
Emergency Notification	Chem-Tel 1-800-255-3924					
COMPONENTS AND HAZARD INFORMATION						
Component	CAS No.	%	OSHA TWA		OSHA STEL	
			ppm	mg/m ³	ppm	mg/m ³
lithium stearate	004485125	25	NE	10	NE	NE
2, 6-cis-diphenylhexamethyl cyclotetrasiloxane	033204761	<.1	NE	20µ/m ³	NE	NE
phenylheptamethyl cyclotetrasiloxane	010448096	<.1	NE	200µ/m ³	NE	NE
PHYSICAL DATA						
THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.						
Boiling Range NA	Specific Gravity 1.10	Molecular Weight NA		Viscosity NA		
Percent Volatile by Volume NA	Vapor Pressure @20 C degrees NA	Vapor Density (Air = 1) NA		Pour, Congealing or Melting Point NE		
Solubility in Water @1 ATM and 25°C (77°F) NE		Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate =1) NA			pH NA	
FIRE AND EXPLOSION HAZARD INFORMATION						
Flash Point (Minimum) >213.98°F (101.1°C)	Autoignition Temperature NE		Test Mode	LEL NE	UEL NE	
National Fire Protection Association (NFPA) — Hazard Identification						
Health	Flammability	Reactivity	Basis			
1	1	0				

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Handling Precautions
Flammable or Explosive Limits (Approximate Percent by Volume in Air)
Extinguishing Media Water spray, carbon dioxide (CO ₂), dry chemical, foam. Water can be used to cool fire-exposed containers.
Fire Fighting Procedures Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
Decomposition Products Under Fire Condition Carbon oxides and traces of incompletely burned carbon compounds, silicon dioxide, metal oxides, formaldehyde.
“Empty” Container Warning
Unusual Fire and Explosion Hazards none
HEALTH AND HAZARD INFORMATION
Variability Among Individuals
Signs and Symptoms of Overexposure
Effects of Overexposure EYE: Direct eye contact may cause temporary discomfort with mild redness and dryness similar to windburn. SKIN: A single, relatively short exposure causes no known adverse effect. Several repeated or prolonged exposures (24 to 48 hours) may irritate. INHALATION: No irritation to eyes and respiratory passages. No injury is likely from relatively short exposures of less than 8 hours. ORAL: Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may injure slightly.
Nature of Hazard and Toxicity Information
Pre-existing Medical Conditions which may be Aggravated by Exposure
Threshold Limit Value

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Health Hazards This compound may contain low levels of phenyl heptamethylcyclotetra-siloxane and 2,6-cis-diphenylhexamethylcyclotetrasiloxane, which are estrogen-like chemicals. Estrogens are hormone substances that affect the reproductive system.		
PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES		
Eye Contact Immediately flush with water.		
Skin No first aid should be needed.		
Inhalation No first aid should be needed.		
Ingestion Get medical attention.		
SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.		
REACTIVITY		
Stability stable	Incompatibility	Hazardous Decomposition Products Carbon oxides and traces of incompletely burned carbon compounds, silicon dioxide, metal oxides, formaldehyde
Conditions to Avoid none	Hazardous Polymerization will not occur	Materials to Avoid oxidizing material can cause a reaction
ENVIRONMENTAL INFORMATION		
Steps to be Taken in Case Material is Released or Spilled Mop up, wipe up, or soak up with absorbent and contain for salvage or disposal. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas.		
Disposal Observe all applicable local, state, and federal waste management regulations.		
Protective Gear		
Precautions to be taken in handling and storage No special precautions. Use reasonable care.		
THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.		

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Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)					
Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)					
Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)					
Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)					
Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard	Not Applicable
Y	Y	N	N	N	
SPECIAL STATE NOTIFICATIONS					
New Jersey 063148527 75% dimethyl, phenylmethyl siloxane, trimethyl-terminated 004485125 25% lithium stearate					
Pennsylvania 063148527 75% dimethyl, phenylmethyl siloxane, trimethyl-terminated 004485125 25% lithium stearate					
PROTECTION AND PRECAUTIONS					
Ventilation General ventilation recommended.					
Respiratory Protection No respiratory protection should be needed.					
Protective Gloves No special protection needed.					
Eye Protection Use proper protection — safety glasses a minimum.					
Other Protective Equipment Traces of benzene (carcinogen) may form if heated in air about 300°F (149°C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. Use at high temperatures may evolve or generate phenylheptamethylcyclotetrasiloxane and 2,6-cis-diphenylhexamethylcyclotetrasiloxane. Provide adequate ventilation to control within exposure guidelines.					
NOTE: These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray applications, may require added precautions.					

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TRANSPORTATION AND OSHA RELATED LABEL INFORMATION
Transportation Incident Information
U.S. DOT Hazardous Materials Shipping Description
OSHA Required Label Information

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