



SAFETY DATA SHEET

According to Hazard Communication Standard (29 CFR 1910.1200)

Barium Grease

Issue Date: 07/30/2019

Version 1.0

Revision Date: 07/30/2019

SDS record number: CSSS-TCO-010-131066

1. Identification

Product Name	Barium Grease
Synonyms	-
CAS #	See section 3
Product Code	-
Product Use	O-Ring Lubrication
Manufacturer/Supplier	
Supplier (Manufacturer)	LPI Fire
Address	421 North Midland Ave. Saddle Brook, NJ 07663
Telephone	201-343-3330
Fax	201-343-0558
24 Hour Emergency Telephone	
CHEMTREC	1-800-424-9300
International CHEMTREC	1-703-527-3887

2. Hazard(s) Identification

GHS Classification

Physical Hazards	Not classified
Health Hazards	Not classified
Environmental Hazards	Not classified

GHS Label Elements

Hazards Pictograms	No hazard pictogram is used
Signal Word	No signal word is used
Hazard Statement	Not applicable

Precautionary Statement

Prevention	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Not applicable



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3. Composition / Information on Ingredients

Components	CAS#	Percent
Mineral Oil	N/A	82-85%
Barium Gelatinizer	68201-19-4	11-14%
Proprietary Additive	N/A	4-5%

4. First-Aid Measures

First-Aid Procedures

Eye Contact	Immediately flush eyes with large amount of water for at least 15 minutes. lifting upper and lower lids. Get prompt medical attention.
Skin Contact	Flush with large amount of water, use soap if available. Remove grossly contaminated clothing, including shoes and launder before re-use. Discard shoes. If irritation persists, get medical attention.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.
Ingestion	Do not induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention.

Notes To Physician

Treat symptoms

5. Fire-Fighting Measures

Flammable Properties	Not available
Extinguishing Media	
Suitable extinguishing media	Use water spray, foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Not available.
Firefighting Equipment/Instructions	Shut off ignition sources. Stop leak if you can do it without risk. For small liquid spills, take up with sand or other absorbent material. For larger spills, dike far ahead of spill for later disposal. No smoking, flares or flames in hazard area. Keep unnecessary people away.
Hazardous Combustion Products	Oxides of carbon.



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6. Accidental Release Measures

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid contact with skin and eyes. For personal protection see section 8.
Environmental Precautions	Avoid disposing into drainage/sewer systems or directly into the aquatic environment.
Methods for Cleaning Up	For small liquid spills, take up with sand or other absorbent material. For larger spills, dike far ahead of spill for later disposal.

7. Handling and Storage

Handling	Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.
Storage	Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed and store between 5°C and 40°C.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Type	Value
Barium Gelatinizer (CAS 68201-19-4)	PEL	0.5 mg/m ³

US. ACGIH Threshold Limit Values

Material	Type	Value
Barium Gelatinizer (CAS 68201-19-4)	TWA	0.5 mg/m ³

US. ACGIH Threshold Limit Values

Material	Type	Value
Barium Gelatinizer (CAS 68201-19-4)	TWA	0.5 mg/m ³

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Use in well-ventilated area.



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8. Exposure Controls / Personal Protection Cont'd

Individual Protection Measures, such as personal protective equipment

Eye / Face Protection	Wear chemical goggles.
Skin Protection	Impervious neoprene or rubber gloves are recommended. Standard industrial hygiene procedures should be practiced.
Respiratory Protection	No special requirements
General Hygiene Considerations	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and Chemical Properties

Appearance	
Physical State	Grease
Form	Grease
Color	Yellow
Odor	Odorless
Odor Threshold	Not available
pH	Not available
Vapor Pressure	Not available
Melting Point / Freezing Point	>185°C
Initial Boiling Point and Boiling Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Explosion Limits	Not available
Vapor Density	Not available
Density	0.9-1.1g/cm ³
Solubility (water)	Not available
Partition Coefficient	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Specific Gravity	Not available
Flammability Limits in Air, Upper, % by Volume	Not available



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9. Physical and Chemical Properties Cont'd

Flammability Limits in Air, Lower, % by Volume	Not available
VOC	Not available
Percent Volatile	Not available
Other Data	
Viscosity	95 mPa.s
Kinetic Viscosity	500 (40°C)
Upper/Lower Explosive Limits	Not available
Surface Tension	Not available

10. Stability and Reactivity

Chemical Stability	Material is stable under normal conditions.
Conditions to Avoid	Incompatible materials. Keep away from flame.
Incompatible Materials	Strong oxidizing agents. Strong bases.
Hazardous Decomposition Products	Oxides of carbon.
Possibility of Hazardous Reactions	No dangerous reactions known.

11. Toxicological Information

Toxicokinetics, Metabolism and Distribution	
Non-human toxicological data	Not available
Information on Toxicological Effects	
Acute Toxicity	
LD50(Oral, Rat)	Not available
LD50(Dermal, Rat)	Not available
LC50(Inhalation, Rat)	Not available
Skin Corrosion/Irritation	Not classified
Serious Eye Damage/Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Charcinogenicity	Not classified
Reproductive Toxicity	Not classified
STOT-Single exposure	Not classified
STOT-Repeated Exposure	Not classified
Aspiration Hazard	Not classified



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12. Ecological Information

Toxicity

Acute Toxicity		Time	Species	Method	Evaluation	Remarks
EC50	N/A	72h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available
Results of PBT&vPvB Assessment	Not available
Other Adverse Effects	No known significant effects or critical hazards

13. Disposal Considerations

Disposal Instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated Packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic Shipping Requirements	
UN Number	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing Group	Not regulated
Environmental Hazards	No

IATA

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
Transport Hazard Class(es)	Not regulated
Packing Group	Not regulated
Environmental Hazards	No



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14. Transport Information Cont'd

IMDG

UN Number	Not regulated
Proper Shipping Name	Not regulated
Transport Hazard Class(es)	Not regulated
Packing Group	Not regulated
Environmental Hazards	No

15. Regulatory Information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)	Barium Gelatinizer (CAS 68201-19-4) Listed
SARA 304 Emergency Release Notification	Not regulated
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)	Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely Hazardous Substance	Not listed
SARA 311/312 Hazardous Chemical	Yes
SARA 313 (TRI Reporting)	

Chemical Name	CAS Number	% by wt.
Barium Gelatinizer	68201-19-4	11-14%
Not regulated		

Other Federal Regulations

Clean Air Act (CAA) Section 112 Harardous Air Pollutants (HAPs) List	Not regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated
Safe Drinking Water Act (SDWA)	Not regulated

State Regulations: Not on California Prop65 list. Does not contain any components known to the state of California to cause cancer or reproductive toxicity.



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16. Other Information, including date of preparation or last revision

HMIS® Ratings

Health: 0

Flammability: 1

Physical hazard: 0

NFPA Ratings

Health: 0

Flammability: 1

Instability: 0

Disclaimer

The information in the sheet was written on the best knowledge and experience currently available.

Issue Date

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