



Material Safety Data Sheet

BlueSpot 3oz (85g) Multipurpose Grease

Section 1: Product and corporate identity

Product: Lithium grease

Section 2: Hazards Identification

Classification of the substance or mixture

This product is not classified according to the GHS (The Globally Harmonized System of Classification and Labelling of Chemicals).

GHS Label elements, including precautionary statements

Pictogram(s): No pictogram is used.

Signal word: No signal word is used.

Hazard statement: No hazard statement.

Precautionary statements: No precautionary statement.

Description of any hazards not otherwise classified

No additional information available. See action 11 for more detailed information on health effects and symptoms.

Section 3: Composition/Information on Ingredient

Substance () Preparation (✓) Article ()

Composition:

Chemical name	CAS No.	Content (% w/w)
Base oil	8002-05-9	91%
12-hydroxystearic acid	106-14-9	5.6%
Stearic acid	57-11-4	2%
Lithium hydroxide	1310-65-2	1%
Calcium dihydroxide	1305-62-0	0.4%

Note: CAS No. is Chemical Abstract Service Registry Number.

*According to IP346, highly refined mineral oil contains <3% (w/w) DMSO extract.



Section 4: First Aid Measures

Description of first aid measures

Inhalation: If feel unwell, move to fresh air and rest in a position that is comfortable for breathing. Contact a physician if discomfort continues.

Skin contact: Wash off with soap and plenty of water. If skin irritation continues contact a doctor.

Eye contact: Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. If eye irritation continues contact a doctor.

Ingestion: If the person is conscious, wash out the mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician and get medical attention immediately. In case of spontaneous vomiting, keep your body leaning forward and avoid aspiration into the lungs.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 11.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Section 5: Extinguishing media

Extinguishing media

Suitable extinguishing media: Dry chemical, carbon dioxide or alcohol resistant foam.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter or spread fire.

Special hazards arising from the substance or mixture

Overheat, flame and strong oxidants can cause burning. Overheat may produce hazardous vapors and combustion products: carbon oxides, aldehyde etc.

Advice for firefighters

Evacuate personnel to safe areas. As in any fire wear self-contained breathing apparatus and full protective gear for firefighting. Firefighting from a safe distance.



Further information

Use water fog to cool down unopened container involved in fire. Prevent fire extinguishing water from contaminating surface water or the ground water source.

Section 6: Accidental Release Measures

For guidance on selection of personal protective equipment see chapter 8 of this material safety data sheet. See chapter 13 for information on disposal. Observe the relevant local and international regulations.

Personal precautions, protective equipment and emergency procedures:

Evacuate area. Ventilate area. Avoid direct contact with spillage. Avoid inhaling vapor. Use suitable personal protective equipment.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Small quantities may be contained by inert material (sand, diatomite, acid binders, universal binders, sawdust). For large spills and spilled material contain the material to ensure runoff does not reach a waterway. Gather the spilled product and keep in suitable, closed containers for recycle or disposal (see section 13).

Section 7: Handling and storage

Precautions for safe handling:

The usual precautionary measures for handling chemicals should be followed.

Use in a well ventilated area.

Use appropriate, approved safety equipment as in section 8.

Avoid contact with the skin and eyes. Avoid breathing in vapor or mist.

Wash thoroughly after handling.

Keep away from heat/sparks/open flames/overheat. Keep container tightly closed when not in use.

Do not eat, drink or smoke at the workplace.

Keep away from strong oxides. Equip with fire fight and accidental release equipment.



Conditions for safe storage, including any incompatibilities:

Store in a cool place. Keep container tightly closed in a dry well ventilated place. Store away from food. Do not store together with strong oxidizing agent. Keep away from heat/sparks/open flames/overheat. Equip with fire fight and accidental release equipment in storage area.

Section 8: Exposure controls, personal protection

Exposure limits: Contains no substances with occupational exposure limit values.

Exposure controls

Engineering control: General industrial hygiene practice. Provide appropriate exhaust ventilation. Provide safe shower and eye wash fountain.

Personal protective equipment

Respiratory protection: Not required under normal usage. Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

Eyes protection: Not required under normal usage. Use face shield and safety glasses if in eye risk exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Body protection: Normal general work suit is enough. If liquid splash exists, wear chemical resistant complete suit. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection: Handle with chemical resistant gloves. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product.

Other protections: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Viscous cream
Colour	Tawny
Odour	Weak odour



pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Pour point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not flammable
Upper explosive limit % (V/V)	Not available
Lower explosive limit % (V/)	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	Not available
Ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

Section 10: Stability and Reactivity

Stability: Stable under normal storage temperature and pressure.

Conditions to avoid: Heat, flames and mars.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Other decomposition products – no data available. In the event of fire see section 5.

Probability of hazardous: None hazardous reactions known under normal conditions.

Section 11: Toxicological information

Acute Toxicity:

Ingredient	CAS No.	LD50-Rat-Oral	LC50-Rat-Inhalation	LD50-Rabbit-Skin
Base Oil	8002-05-9	>4300mg/kg	-	-

Skin Corrosion: Based on available data the classification criteria are not met.

Serious Eye Damage / Eye irritation: Based on available data the classification criteria are not met.

Respiratory or skin sensitization: No Sensitizing effects known.



Germ cell mutagenicity: Based on available data the classification criteria are not met.

Carcinogenicity: None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA.

Reproductive toxicity: Based on available data the classification criteria are not met.

Specific Target Organ Toxicity – Single: Based on available data the classification criteria are not met.

Specific Target Organ Toxicity- Repeated: Based on available data the classification criteria are not met.

Aspiration Hazard: Based on available data the classification criteria are not met.

Potential Health Effects

Inhalation: No significant effect or harm under normal condition. Long term inhalation of oil mist or vapors in high temperature may cause respiratory irritation.

Skin Contact: No significant effect or harm under normal condition. Prolonged or repeated skin contact with inappropriate cleaning may cause skin irritation or dermatitis.

Eye contact: May cause slight eye irritation.

Ingestion: May be harmful if ingested. Ingesting a large amount may cause stomach irritation, vomiting and diarrhoea.

Section 12: Ecological information

Toxicity

No data available

Persistence and degradability

No data available

Bio accumulative potential

No bio accumulative potential

Mobility in soil

No data available



Results of PBT and vPcB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT) or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

May be harmful to aquatic life. Do not allow materials to release into drains or water body.

Section 13: Disposal considerations

Waste treatment methods

Product

Recycle if possible. Offer surplus and non recyclable products to a licensed disposal company. Observe according to the national and local related regulations.

Contaminated packaging

Containers may still present chemical hazard when empty. Return to a supplier for recycling if possible. Keep away from heat.

Section 14: Transport Information

UN Number

ADR/RID/AND, IMDG, IATA: Not applicable

UN Proper Shipping Name

ADR/RID/AND, IMDG, IATA: Not applicable

Transport Hazard Classes

ADR/RID/AND, IMDG, IATA

Class: Not applicable

Label: Not applicable

Packing Group

ADR/RID/AND, IMDG, IATA: Not applicable

Environmental Hazards: Not applicable

Special precautions for user: Not applicable



Transport in bulk according to Annex 1 of Marpol and the IBC Code: Not applicable

Transport/Additional Information: Not dangerous according to the above specifications.

UN Model Regulation: Not applicable

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Substances List@

CAS No	EINEC	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
8002-05-9	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
106-14-9	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
57-11-4	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
1310-65-2	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
1305-62-0	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

Note

EINES: European Inventory of Existing Commercial Chemical Substances

TSCA: TSCA Chemical Substance Inventory

DSL: Canada Domestic Substance List

IECSC: Inventory of Existing Chemical Substances in China

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippines Inventory of Chemicals and Chemical Substances

KECI: Korea Existing Chemicals Inventory

AICS: Australian Inventory of Chemical Substances

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Additional information

Reference

IPCS: The International Chemical Safety Cards (ICSC)

EU REACH Registered Substance Database



OECD: The Global Portal to information on chemical substances

CAMEO Chemicals

NLM:ChemIDplus

EPA: Integrated Risk Information System

U.E Department of Transportation: ERG

Germany GESTIS-database on hazard substance

IARC

Abbreviations and acronyms

PC-Stel – Short term exposure limit

PC-TWA – Time weighted average

IARC – International agency for research on cancer

LC50 – Lethal concentration 50%


LD50 – Lethal dose 50%

EC50 – Effective concentration 50%

PBT – Persistent, bio accumulative, toxic

vPvB – Very persistent, very bio accumulative

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