



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

This material is to be used for research purposes only under the supervision of a technically qualified individual. The toxicological properties may have not been completely characterized. Please determine your responsibilities under your local regulations.

1. Identification of the substance or mixture and of the supplier

Identification

Product Name: Soda Block Grease with Moly
Article Number: 11297

Details of the supplier of the safety data sheet

Company Name: Opti-Lube Inc
Address: 1646 W Business Park Drive, Suite B
Orem, UT 84058
USA
Telephone: 801-491-3717

Emergency telephone number:

During normal business hours: (801)-491-3717

2. Hazard(s) identification

Hazard Classification of the substance or mixture



GHS07

Skin Irritant	2	H315	Causes skin irritation
Eye irritation	2A	H319	Causes serious eye irritation
Skin Sensitive	1	H317	May cause an allergic skin reaction
STOT SE	3	H335	May cause respiratory irritation.

Label Elements:

GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).



GHS07

Signal Word: Warning

Hazard determining components of labeling:

Rosin and resin acids, sodium salt



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

Hazard statements: Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

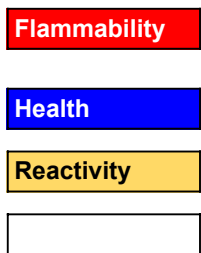
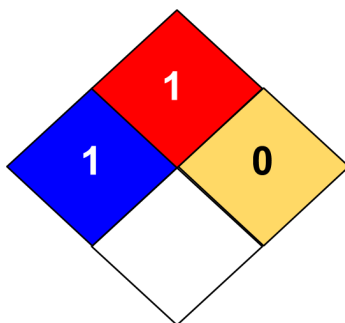
Precautionary Statement: Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label).
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

HMIS ratings (scale 0-4)



NFPA ratings (scale 0-4)



Other hazards:

Results of PBT and vPvB assessment

PBT: No applicable.

vPvB: No applicable.

3. Composition/Information on Ingredients

Chemical characterization: Mixtures



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

Description: Mixture of the substances listed below with non-hazardous additions.

Chemical Name	CAS-NO.	Percent by Weight
Asphalt Resin	8052-42-4	10 - < 20%
Rosin and Resin acids, Sodium salt	61790-51-0	10 - < 25%
molybdenum disulphide	1317-33-5	2.5-<10%

4. First-aid Measures

Description of first aid measures:

- Ingestion:** If symptoms persist consult a doctor.
- Inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- Eye Contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- Skin Contact:** Immediately wash with water and soap and rinse thoroughly.
- Note To Physician:** **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. Fire-fighting measures

Extinguishing media:

- Suitable Extinguishing Media:** Use fire fighting measures that suit the environment.
- Specific hazard arising from the substance or mixture:** No further relevant information available.
- Advice for firefighters, Special protective equipment and precautions for firefighters:** No special measures required.

6. Accidental release measures

- Protective Precautions, Protective Equipment and Emergency Procedures:** Not required.
- Methods and material for containment and cleanup:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- Environment Precautions:** Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- References to other sections:** See Section 7 for safe handling.



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and Storage

Handling:

Precautions for Safe Handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Information about protection against explosion and fires: No special measures required.

Storage:

Conditions for safe storage, including any incompatibilities: Keep cool. Store in a well-ventilated place.

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

8. Exposure Controls / Personal Protection

Additional information about design of technical systems: No further data; see item 7.

Control Parameters:

Components with limit values that require monitoring at the workplace:

8052-42-4 Asphaltic Resin (25-50%)

PEL	Long-term value: 5 mg/m ³
REL	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ *15-min; See Pocket Guide App. A
TLV	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ *inh. fraction; as benzene-soluble aerosol; BEIp

64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic (10-<25%)

ACGIH TLV	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³
OSHA PEL	Long-term value: 5 mg/m ³

822-16-2 Sodium Stearate (10-<25%)

ACGIH TLV	Long-term value: 10 mg/m ³
-----------	---------------------------------------

1317-33-5 molybdenum disulphide (2.5-<10%)



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

PEL	Long-term value: 15* mg/m3 *Total dust
TLV	Long-term value: 10* 3** mg/m3 as Mo; *inhalable fraction ** respirable fraction

Ingredients with biological limit values:	
8052-42-4 Asphaltic Resin (25-50%)	
BEI	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

Ingredients with biological limit values:	
8052-42-4 Asphaltic Resin (10 - < 20%)	
BEI	Medium: urine Time: end of shift at end of workweek Parameter: 1 - Hydroxypyrene with hydrolysis (nonquantitative)

Additional information: The lists that were valid during the creanon were used as basis.

Exposure controls:

Personal protectve equipment:

General protective and hygenic measures: Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands: The glove material has to be impermeable and resistant to the product/ substance/preparation/chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffursion and the degradation.

Material of gloves: The selection of a suitable glove does not only depend on the material, but also on further marks of quality and caries from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection: Tightly sealed goggles.

9. Physical and chemical properties

Information on basic physical and chemical properties

Form: Solified mass
Appearance (Color): Grey



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

Odor:	Petroleum-like
Odor Threshold:	Not determined
pH value:	Not determined
Change in condition:	
Melting Point:	Not determined
Boiling Point:	427 °C (801 °F)
Flash Point:	164 °C (327 °F)
Flammability (solid, gas):	Not determined
Ignition temperature:	> 315 °C (> 599 °F)
Decomposition Temperature:	Not determined
Auto-ignition:	Product is not self-igniting.
Danger of Explosion:	Product does not present an explosion hazard.
Explosive Limit- upper (%):	Not determined.
Explosive Limit- lower (%):	Not determined.
Vapor Pressure (Air=1):	Not applicable
Density at 20 °C (68 °F):	0.97118 g/cm ³ (8.104 lbs/gal)
Relative Density:	Not determined
Vapor Density:	Not applicable
Evaporation Rate:	Not applicable
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition Coefficient n-octanol / water:	Not determined
Viscosity:	
Dynamic:	Not applicable
Kinematic:	Not applicable
Solvent Content, Organic Solvent:	0.00%
Solids content:	46.60%
Other information:	No further relevant information available.

10. Stability and reactivity

Reactivity:	Not determined
Chemical Stability:	Not determined
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of Hazardous Reactions:	No dangerous reactions known.
Conditions To Avoid:	No further relevant information available.



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products: No dangerous decomposition products known.

11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity: LD/LC50 values that are relevant for classification:
ATE (Acute Toxicity Estimates)
Oral LD50 8822 mg/kg (rat)
Dermal LD50 6575 mg/kg (rabbit)
Inhalative LC50/4h 283 mg/l

Primary Irritant Effect:

On the Skin: Irritant to skin and mucous membranes.
On the Eye: Irritating effect.
Sensitization: No sensitizing effects known.

Additional Toxicological Information

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

Carcinogenic categories:

IARC (International Agency for Research on Cancer)	8052-42-4	Asphaltic Resin	2B
NTP (National Toxicology Program)	None of the ingredients are listed.		
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed.		

12. Ecological Information

Toxicity:

Acute toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information

General Notes: Water hazard class 1 (self-assessment): Slightly hazardous for water. Do not allow undiluted product of large quantities reach ground water, water course or sewage system.



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

13. Disposal considerations**Waste treatment methods**

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

14. Transport Information**UN Number:**

DOT, ADN, IMDG, IATA Not regulated.

UN Proper Shipping Name:

DOT, ADN, IMDG, IATA Not regulated.

Transport Hazard Class(es):DOT, ADN, IMDG, IATA
Classes Not regulated.**Packing Group:**

DOT, ADN, IMDG, IATA Not regulated.

Environmental Hazards

Marine Pollutant: No

Special precautions for user: Not applicable

Transport in bulk according to annex II of MARPOL73-78 and the IBC Code: Not applicable.

UN "Model Regulation":

15. Regulatory Information

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

SARA

Section 335 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (toxic substance control act): All ingredients are listed.

Proposition 65



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

Chemicals known to cause cancer: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity to females: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity to males: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Carcinogenic Categories

EPA (Environmental Protection Agency) None of the ingredients are listed.
TLV (Threshold limit value established by ACGIH) Asphaltic Resin 8052-42-4
NIOSH-Ca (National Institute for Occupational Safety and Health): Asphaltic Resin 8052-42-4

GHS Label elements

The product is classified and labeled according to the globally harmonized system (GHS).

Hazard Pictograms



GH507

Signal Word

Warning

Hazard determining components of labeling: Rosin and resin acids, sodium salt.

Hazard statements:

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation

Precautionary Statement:

Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Specific treatment (see on this label).
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a poison center/doctor if you feel unwell.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.



SAFETY DATA SHEET

Version: 1.2

Revision Date: 8/24/2020

Chemical Safety assessment: A Chemical Safety Assessment has not been carried out.

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Technical Department
Contact: sales@opti-lube.com or 801-491-3717
Date of preparation/last revision: 8/24/20

Abbreviations and acronyms:

ADR:	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods.
DOT:	US Department of Transportation.
IATA:	International Air Transport Association.
ACGIH:	American Conference of Governmental Industrial Hygienists.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
ELINCS:	European List of Notified Chemical Substances.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
NFPA:	National Fire Protection Association (USA).
HMIS:	Hazardous Materials Identification system (USA).
LC50:	Lethal concentration, 50 percent.
LD50:	Lethal dose, 50 percent.
Skin Irrit. 2:	Skin corrosion/irritation, hazard category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, hazard category 2A
Skin Sens. 1:	Sensitisation - skin, hazard category 1
STOT SE 3:	Specific target organ toxicity - single exposure, hazard category 3

*Data compared to the previous version altered.