



101 Moly Grease

SDS Revision Date: 12/28/2021

1. Identification

Product identifier

Product Identity 101 Moly Grease

Other means of identification 101

Relevant identified uses of the substance or mixture and uses advised against
See Technical Data Sheet.

Details of the supplier of the safety data sheet

Company Name: Southwestern Petroleum Lubricants LLC
3401 Quorum Drive Suite 360
Fort Worth, Texas 76137

Customer Service: 800-433-5735

1.4. Emergency telephone number: 734-930-0009

Emergency: numbers call Chemtrec 24/7 USA and
Canada 1-800-424-9300 or 1-703-527-3887

2. Hazard(s) identification

Classification of the substance or mixture

Skin Sens. 1;H317 May cause an allergic skin reaction.

Label elements



Warning

H317 May cause an allergic skin reaction.

[Prevention]:

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, eye protection, face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P362+364 Take off contaminated clothing and wash it before reuse.

[Storage]:

No GHS storage statements

[Disposal]:

P501 Dispose of contents or container in accordance with local and national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Distillates Hydrotreated Heavy Parrafin CAS Number: 0064742-54-7 Synonyms: Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil-unspecified	45 - 70	Not Classified	----
Distillate (petroleum) hydrotreated heavy naphthenic CAS Number: 0064742-52-5 Synonyms: Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil-	45 - 70	Asp. Tox. 1;H304	----

unspecified, Polymer Binders and Adhesive			
Calcium carbonate CAS Number: 0000471-34-1 Synonyms: Calcium carbonate	7 - 13	Not Classified	----
Alkyl quaternary ammonium bentonite CAS Number: 0068953-58-2 Synonyms: Alkyl quaternary ammonium bentonite	5 - 10	Not Classified	----
Molybdenum (iv) sulfide CAS Number: 0001317-33-5 Synonyms: Molybdenum sulfide	1 - 5	Not Classified	----
Graphite CAS Number: 0007782-42-5 Synonyms: Graphite	1 - 5	Not Classified	----
Carbamodithioic acid, dibutyl-, methylene ester CAS Number: 0010254-57-6 Synonyms: Carbamodithioic acid, dibutyl-, methylene ester	1 - 5	Not Classified	----

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview Treat symptomatically. Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Skin May cause an allergic skin reaction.

Section 5. Fire-fighting measures

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Avoid breathing dust, fume, gas, mist, vapours, spray.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]:

Conditions for safe storage, including any incompatibilities

Incompatible materials: Strong oxidizing agents and acids.

See section 2 for further details. - [Storage]:

Specific end use(s)

No available information

Section 8. Exposure controls / personal protection
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Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000471-34-1	Calcium carbonate	ACGIH	No Established Limit
		Alberta	10 mg/m ³ TWA
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit

		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	10 mg/m ³ TWA (listed under Limestone) 20 mg/m ³ STEL (listed under Limestone)
		Nunavut	10 mg/m ³ TWA (listed under Limestone) 20 mg/m ³ STEL (listed under Limestone)
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	10 mg/m ³ TWAEV (total dust)
		Saskatchewan	10 mg/m ³ TWA (listed under Limestone) 20 mg/m ³ STEL (listed under Limestone)
		Yukon	30 mppcf TWA; 10 mg/m ³ TWA 20 mg/m ³ STEL
0001317-33-5	Molybdenum (iv) sulfide	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit

		Saskatchewan	No Established Limit
		Yukon	No Established Limit
0007782-42-5	Graphite	ACGIH	TWA: 2 mg/m ³
		Alberta	2 mg/m ³ TWA (all forms except Graphite fibres, respirable)
		British Columbia	2 mg/m ³ TWA (all forms except Graphite fibres, respirable)
		Manitoba	2 mg/m ³ TWA (all forms except Graphite fibers, respirable particulate matter)
		New Brunswick	2 mg/m ³ TWA (all forms except graphite fibres)
		Newfoundland and Labrador	2 mg/m ³ TWA (all forms except Graphite fibers, respirable particulate matter)
		Nova Scotia	2 mg/m ³ TWA (all forms except Graphite fibers, respirable particulate matter)
		Northwest Territories	2 mg/m ³ TWA (natural, all forms, except Graphite fibres, respirable fraction) 4 mg/m ³ STEL (natural, all forms, except Graphite fibres, respirable fraction)
		Nunavut	2 mg/m ³ TWA (natural, all forms, except Graphite fibres, respirable fraction) 4 mg/m ³ STEL (natural, all forms, except Graphite fibres, respirable fraction)
		Ontario	2 mg/m ³ TWA (except Graphite fibres, respirable)
		Prince Edward Island	2 mg/m ³ TWA (all forms except Graphite fibers, respirable particulate matter)
		Quebec	2 mg/m ³ TWAEV (containing no Asbestos and <1% Crystalline silica, except Graphite fibres, respi
		Saskatchewan	2 mg/m ³ TWA (natural, except Graphite fibres, respirable fraction) 4 mg/m ³ STEL (natural, except Graphite fibres, respirable fraction)
		Yukon	20 mppcf TWA; 30 mppcf TWA (synthetic); 10 mg/m ³ TWA (synthetic)

0010254-57-6	Carbamodithioic acid, dibutyl-, methylene ester	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
0064742-52-5	Distillate (petroleum) hydrotreated heavy naphthenic	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit

		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
0064742-54-7	Distillates Hydrotreated Heavy Parrafin	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit
0068953-58-2	Alkyl quaternary ammonium bentonite	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit

	Northwest Territories	No Established Limit
	Nunavut	No Established Limit
	Ontario	No Established Limit
	Prince Edward Island	No Established Limit
	Quebec	No Established Limit
	Saskatchewan	No Established Limit
	Yukon	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m³ OSHA PEL and 10 mg/m³ ACGIH.

Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Protective safety glasses recommended
Skin	Avoid skin contact. Protective gloves recommended.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Appearance	Thick Black Lubricating Grease
Odour	Petroleum hydrocarbon
Odour threshold	No available information
pH	7
Melting point / freezing point	Non-melt
Initial boiling point and boiling range	No available information
Flash Point	°F °C, Test method: (Open cup)

Evaporation rate (Ether = 1)	nil
Flammability (solid, gas)	No available information
Upper/lower flammability or explosive limits	Lower Explosive Limit: 0.9 Upper Explosive Limit: 7.0
Vapour pressure (Pa)	No available information
Vapour Density	>5
Relative Density	0.9
Solubility in Water	Not miscible in water.
Partition coefficient n-octanol/water (Log Kow)	No available information
Auto-ignition temperature	No available information
Decomposition temperature	No available information
Viscosity (cSt)	No available information
VOC Content	none
Other information	
DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)	

Section 10. Stability and reactivity

Reactivity

Hazardous Polymerization will not occur.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

No available information

Conditions to avoid

Excessive heat and open flame.

Incompatible materials

Strong oxidizing agents and acids.

Hazardous decomposition products

High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Section 11. Toxicological information

Acute toxicity

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Distillates Hydrotreated Heavy Parrafin - (64742-54-7)	> 5,000.00, Rat - Category: NA	> 5,000.00, Rabbit - Category: NA	No data available	No data available	No data available
Distillate (petroleum) hydrotreated heavy naphthenic - (64742-52-5)	> 5,000.00, Rat - Category: NA	No data available	No data available	5.70, Rat - Category: NA	No data available
Calcium carbonate - (471-34-1)	>2,000.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available	No data available	No data available
Alkyl quaternary ammonium bentonite - (68953-58-2)	5,000.00, Rat - Category: 5	No data available	No data available	12.60, Rat - Category: NA	No data available
Molybdenum (iv) sulfide - (1317-33-5)	No data available	No data available	No data available	2.82, Rat - Category: 4	No data available

Graphite - (7782-42-5)	> 2,000.00, Rat - Category: 4	No data available	No data available	> 2,000.00, Rat - Category: NA	No data available
Carbamodithioic acid, dibutyl-, methylene ester - (10254-57-6)	No data available	No data available	No data available	No data available	No data available

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000471-34-1	Calcium carbonate	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0001317-33-5	Molybdenum (iv) sulfide	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0007782-42-5	Graphite	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0010254-57-6	Carbamodithioic acid, dibutyl-, methylene ester	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0064742-52-5	Distillate (petroleum) hydrotreated heavy naphthenic	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0064742-54-7	Distillates Hydrotreated Heavy Parrafin	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0068953-58-2	Alkyl quaternary ammonium bentonite	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable

Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry:

Symptoms and effects, both acute and delayed:

Treat symptomatically.

Skin May cause an allergic skin reaction.

Section 12. Ecological information

Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Distillates Hydrotreated Heavy Parrafin - (64742-54-7)	101.00, Pimephales promelas	> 10,000, Daphnia magna	100.00 (72 hr), Pseudokirchneriella subcapitata
Distillate (petroleum) hydrotreated heavy naphthenic - (64742-52-5)	5,000.00, Oncorhynchus mykiss	1,000.00, Daphnia magna	1,000.00 (96 hr), Scenedesmus subspicatus

Calcium carbonate - (471-34-1)	101.00, Oncorhynchus mykiss	101.00, Daphnia magna	Not Available
Alkyl quaternary ammonium bentonite - (68953-58-2)	Not Available	Not Available	Not Available
Molybdenum (iv) sulfide - (1317-33-5)	Not Available	Not Available	Not Available
Graphite - (7782-42-5)	100.00, Danio rerio	> 100.00, Daphnia magna	> 100.00 (72 hr), Pseudokirchnerella subcapitata
Carbamodithioic acid, dibutyl-, methylene ester - (10254-57-6)	Not Available	Not Available	Not Available

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

No available information

Mobility in soil

No available information

Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

Other adverse effects

No available information

Section 13. Disposal considerations

Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport information

Classification Method: Classified as per Part 2, Sections 2.1 ? 2.8 of the Transportation of Dangerous Goods Regulations.

	TDG (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	Not Regulated	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
Transport hazard class(es)	TDG Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
Packing group	Not Applicable	Not Applicable	Not Applicable
Environmental hazards			
IMDG	Marine Pollutant: No;		
Special precautions for user	No available information		

Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria Hazardous Products Regulations (SOR/2015-17) and the SDS contains all of the information required by those regulations.

Canadian Domestic Substance List (DSL):

- 1,3,4-thiadiazole, 2,5-bis(octyldithio)-
- Alkyl quaternary ammonium bentonite
- Calcium carbonate
- Carbamodithioic acid, dibutyl-, methylene ester
- Distillate (petroleum) hydrotreated heavy naphthenic
- Distillates Hydrotreated Heavy Parrafin
- Graphite
- Lubricating oils, petroleum, hydrotreated spent
- Molybdenum (iv) sulfide
- Polyisobutylene
- Propylene carbonate

Canadian Non-Domestic Substance List (NDSL):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Section 16. Other information

SDS Revision Date 12/28/2021

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products.

Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H304 May be fatal if swallowed and enters airways.

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