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| Synpower™ SYNTHETIC GREASE  |  | Version: 1.1              |
| VV985   |  |                           |

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Synpower™  
SYNTHETIC GREASE

### Recommended use of the chemical and restrictions on use


|   |  |
|---|--|
| <b>Details of the supplier of the safety data sheet</b><br><br>Valvoline LLC<br>3499 Blazer Parkway<br>Lexington, KY 40509<br>United States of America<br><br>SDS@valvoline.com | <b>Emergency telephone number</b><br>1-800-VALVOLINE<br><br><b>Regulatory Information Number</b><br>1-800-TEAMVAL<br><br><b>Product Information</b><br>1-800-TEAMVAL |
|---|--|

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Eye irritation : Category 2A

### GHS Label element


Hazard pictograms : 

Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling.  
Wear eye protection/ face protection.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.

### Other hazards

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None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS


Substance / Mixture : Mixture

#### Hazardous components

| Chemical Name   | CAS-No.    | Classification  | Concentration (%) |
|---|------------|---|-------------------|
| OLEFIN POLYMER  | 9002-88-4  | Not a hazardous substance or mixture.   | 9.99              |
| Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | 68457-79-4 | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Acute 2; H401<br>Aquatic Chronic 2; H411 | 2.50              |
| MOLYBDENUM DISULFIDE  | 1317-33-5  | Not a hazardous substance or mixture.   | 2.50              |

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.  
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.

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- If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Causes serious eye irritation.
- Notes to physician : No hazards which require special first aid measures.

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## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
Oxides of phosphorus
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform

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respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

## SECTION 7. HANDLING AND STORAGE


Advice on safe handling : Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : 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.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components           | CAS-No.   | Value type (Form of exposure) | Control parameters / Permissible concentration         | Basis      |
|----------------------|-----------|-------------------------------|--|------------|
| MOLYBDENUM DISULFIDE | 1317-33-5 | TWA                           | 3 mg/m <sup>3</sup><br>Respirable fraction.<br>(as Mo) | ACGIH      |
|                      |           | TWA                           | 10 mg/m <sup>3</sup><br>Inhalable fraction.<br>(as Mo) | ACGIH      |
|                      |           | PEL                           | 15 mg/m <sup>3</sup><br>Total dust.<br>(as Mo)         | OSHA_TRANS |
|                      |           | TWA                           | 10 mg/m <sup>3</sup><br>Total dust.<br>(as Mo)         | Z1A        |

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**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Personal protective equipment**

Respiratory protection : A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:  
impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Discard gloves that show tears, pinholes, or signs of wear.  
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : paste


Physical state : liquid

Colour : dark grey

Odour : No data available


Odour Threshold : No data available

pH : No data available

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Melting point/freezing point : 500 °F / 260 °C  
 Boiling point/boiling range : 700 °F / 371 °C  
 Flash point : 419 °F / 215 °C  
 Evaporation rate :  
   No data available  
 Flammability (solid, gas) : No data available  
 Upper explosion limit : No data available  
 Lower explosion limit : No data available  
 Vapour pressure :  
   No data available  
 Relative vapour density : No data available  
 Relative density :  
   No data available  
 Density : 0.919 g/cm3 (20 °C)  
  
 Solubility(ies)  
   Water solubility : No data available  
   Solubility in other solvents : No data available  
 Partition coefficient: n-octanol/water : No data available  
 Auto-ignition temperature : > 315 °C  
 Thermal decomposition : No data available  
 Viscosity  
   Viscosity, dynamic : No data available  
   Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s (40 °C)  
  
 Oxidizing properties : No data available

## SECTION 10. STABILITY AND REACTIVITY

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Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : carbon dioxide and carbon monoxide

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### **Acute toxicity**

Not classified based on available information.

#### **Product:**

Acute oral toxicity : LD 50 (Rat): 93,458 mg/kg  
Method: Acute toxicity estimate

Acute dermal toxicity : LD 50 (Rabbit): 2,599 mg/kg  
Method: Acute toxicity estimate

#### **Components:**

##### **OLEFIN POLYMER:**

Acute oral toxicity : LD 50 (Rat): > 3,000 mg/kg

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:


Acute oral toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

##### **MOLYBDENUM DISULFIDE:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 2.82 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

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**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: Not irritating to skin

Remarks: May cause skin irritation in susceptible persons.

**Components:**

OLEFIN POLYMER:

Result: Not irritating to skin

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:

Result: Irritating to skin

MOLYBDENUM DISULFIDE:

Result: Not irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

**Components:**

OLEFIN POLYMER:

Result: Not irritating to eyes

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:

Result: Corrosive to eyes

MOLYBDENUM DISULFIDE:

Result: Not irritating to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**


Not classified based on available information.

**Further information**

**Product:**

Remarks: No data available



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**Carcinogenicity:  
IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

No data available

**Persistence and degradability**

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:

Biodegradability : Biodegradation: 1.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**


Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

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federal regulations.

Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

**U.S. DOT - ROAD**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**CFR\_RAIL\_C**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**U.S. DOT - INLAND WATERWAYS**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**TDG\_ROAD\_C**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**TDG\_RAIL\_C**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**TDG\_INWT\_C**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**INTERNATIONAL MARITIME DANGEROUS GOODS**


|                     |
|---------------------|
| Not dangerous goods |
|                     |

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

|                     |
|---------------------|
| Not dangerous goods |
|---------------------|

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**MX\_DG**

|                     |
|---------------------|
| Not dangerous goods |
|---------------------|

**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

|                  |    |
|------------------|----|
| Marine pollutant | no |
|------------------|----|

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 313 Component(s)SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Pennsylvania Right To Know**

|   |              |                  |
|---|--------------|------------------|
| PROPRIETARY OF Synpower Grease - R0257033 | Not Assigned | 90.00 - 100.00 % |
| OLEFIN POLYMER                            | 9002-88-4    | 5.00 - 10.00 %   |

**New Jersey Right To Know**


|   |              |                  |
|---|--------------|------------------|
| PROPRIETARY OF Synpower Grease - R0257033                                   | Not Assigned | 90.00 - 100.00 % |
| OLEFIN POLYMER  | 9002-88-4    | 5.00 - 10.00 %   |
| Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | 68457-79-4   | 1.00 - 5.00 %    |
| MOLYBDENUM DISULFIDE  | 1317-33-5    | 1.00 - 5.00 %    |

**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

**TSCA** : On the inventory, or in compliance with the inventory

**DSL** : This product contains the following components that are not on the Canadian DSL nor NDSL.

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- AUSTR : Not in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECL : Not in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

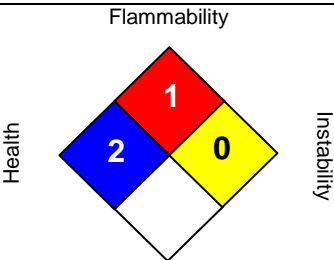
**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

**Further information**

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|  |   |               |          |                     |          |                        |          |
|--|---|---------------|----------|---------------------|----------|------------------------|----------|
| <p><b>NFPA:</b></p>  <p>Health: 2, Flammability: 1, Instability: 0, Special hazard.</p> | <p><b>HMIS III:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: blue; color: white;"><b>HEALTH</b></td> <td style="text-align: center;"><b>2</b></td> </tr> <tr> <td style="background-color: red; color: white;"><b>FLAMMABILITY</b></td> <td style="text-align: center;"><b>1</b></td> </tr> <tr> <td style="background-color: yellow; color: black;"><b>PHYSICAL HAZARD</b></td> <td style="text-align: center;"><b>0</b></td> </tr> </table> <p>0 = not significant, 1 =Slight,<br/>2 = Moderate, 3 = High<br/>4 = Extreme, * = Chronic</p> | <b>HEALTH</b> | <b>2</b> | <b>FLAMMABILITY</b> | <b>1</b> | <b>PHYSICAL HAZARD</b> | <b>0</b> |
| <b>HEALTH</b>  | <b>2</b>  |               |          |                     |          |                        |          |
| <b>FLAMMABILITY</b>  | <b>1</b>  |               |          |                     |          |                        |          |
| <b>PHYSICAL HAZARD</b>   | <b>0</b>  |               |          |                     |          |                        |          |

**NFPA Flammable and Combustible Liquids Classification**  
Combustible Liquid Class IIIB

**Full text of H-Statements referred to under sections 2 and 3.**

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the Safety Data Sheet  
Valvoline internal data including own and sponsored test reports

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The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.


The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-825-8654).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
 DOT : Department of Transportation  
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
 HMIRC : Hazardous Materials Information Review Commission  
 HMIS : Hazardous Materials Identification System  
 NFPA : National Fire Protection Association  
 NIOSH : National Institute for Occupational Safety and Health  
 OSHA : Occupational Safety and Health Administration  
 PMRA : Health Canada Pest Management Regulatory Agency

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RTK : Right to Know  
 WHMIS : Workplace Hazardous Materials Information System