



**Section 1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

|                                  |                       |
|----------------------------------|-----------------------|
| <b>Product Identity</b>          | 105 HI Plus Grease    |
| <b>Alternate Names</b>           | Hi Plus               |
| <b>Unique Formula Identifier</b> | Barium Complex Grease |

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Intended Uses and Uses Advised Against** See Technical Data Sheet.

**1.3. Details of the supplier of the safety data sheet**

|                          |  |
|--------------------------|--|
| <b>Company Name</b>      | Southwestern Petroleum Lubricants LLC<br>3401 Quorum Drive, Suite 360<br>Fort Worth, Texas 76137 |
| <b>Customer Service:</b> | 1+734 930-0009   |

**1.4. Emergency telephone number**

**Emergency**

**24 hour Emergency Telephone No.**

|                 |           |  |
|-----------------|-----------|--|
| Polluxstraat 11 | Telefoon: | +31 (13) 785 49 40   |
| 5047 RA Tilburg | GSM:      | +31 (6) 150 230 19   |
| The Netherlands | E-mail:   | <a href="mailto:info@stratson.nl">info@stratson.nl</a>     |
| Homepage:       |           | <a href="http://www.stratson.nl">www.stratson.nl</a>       |
| SWEPCO lubes:   |           | <a href="http://www.swepcolube.com">www.swepcolube.com</a> |

**Section 2. Hazard identification of the product**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**



2.2. Label elements



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

According to REGULATION (EU) 2020/878 amending Regulations EU 2015/830 and (EC) No 1907/2006

EUH208: Contains 1,3,4-thiadiazole, 2,5-bis(octyldithio)-. May produce an allergic reaction.

- P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
- 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.
- P501 Dispose of contents or container in accordance with local and national regulations.
- P272 Contaminated work clothing should not be allowed out of the workplace.

2.3. Other hazards

This product contains no PBT/vPvB chemicals.  
This product contains no endocrine disrupting chemicals.

**Section 3. Composition/information on ingredients**

3.2. Mixtures

If the product contains substances that present a hazard according to Regulation (EC) No. 1272/2008 [CLP/GHS], they are listed below.

| Ingredient/Chemical Designations   | Weight % | EC No. 1272/2008 Classification | Notes                  |
|--|----------|---------------------------------|------------------------|
| Distillates (petroleum), hydrotreated light naphthenic<br>CAS Number: 64742-53-6<br>EC No. 265-156-6<br>Index No.: 649-466-00-2<br>REACH #: 01-2119480375-34 | 25 - 45  | Not Classified                  | L <sup>^</sup> CLP 3.1 |
| Carbamodithioic acid, dibutyl-, methylene ester<br>CAS Number: 10254-57-6  | 1 - 4    | Not Classified                  |                        |



| Ingredient/Chemical Designations | Weight % | EC No. 1272/2008 Classification | Notes |
|----------------------------------|----------|---------------------------------|-------|
| EC No. 233-593-1                 |          |                                 |       |

<sup>^CLP 31</sup> Reference EC No. 1272/2008 1.1.3.1. Notes relating to the identification, classification and labelling of substances (Table 3.1).

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

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

## Section 4. First aid measures

### 4.1. 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.

**Eye** 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** DO NOT INDUCE VOMITING! If swallowed, vomiting may occur spontaneously. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Rinse mouth thoroughly. Get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

**Overview** If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhea. Treat symptomatically. See section 2 for further details.



**Skin** May cause an allergic skin reaction.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes to physician** Treat symptomatically. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or a rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

### Section 5. Fire-fighting measures

#### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.  
Unsuitable extinguishing media: Do not use; water jet.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

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

#### 5.3. 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

#### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).  
Avoid breathing dust, fume, gas, mist, vapors, spray. Contaminated work clothing should not be allowed out of the workplace.



## 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

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

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

## 6.3. Methods and material for containment and cleaning up

Slippery when spilled. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Local authorities should be advised if significant spillages cannot be contained.

## 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# Section 7. Handling and storage

## 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Avoid prolonged or repeated contact with skin. Avoid inhaling vapor and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closeable containers.

This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.

Use product with caution around heat, sparks, pilot lights, static electricity and open flame.

Wear protective gloves, eye protection, and face protection.

## 7.2. Conditions for safe storage, including any incompatibilities



Storage Temperature: -50 - 50C ( -58 - 122F)

For containers or container linings, use mild steel or high-density polyethylene.

Do not use PVC.

Incompatible materials: No available information

**7.3. Specific end use(s)**

No available information

**Section 8. Exposure controls / personal protection**

**8.1. Control parameters**

**Exposure**

| CAS No.    | Ingredient   | Source                   | Value                  |
|------------|--|--------------------------|------------------------|
| 10254-57-6 | Carbamodithioic acid, dibutyl-, methylene ester        | ACGIH                    | No Established Limit   |
|            |  | DNEL Local Exposure      | No Established Limit   |
|            |  | DNEL Systematic Exposure | No Established Limit   |
|            |  | National                 | No Established Limit   |
| 64742-53-6 | Distillates (petroleum), hydrotreated light naphthenic | ACGIH                    | No Established Limit   |
|            |  | DNEL Local Exposure      | 5.58 mg/m <sup>3</sup> |
|            |  | DNEL Systematic Exposure | No Established Limit   |
|            |  | National                 | No Established Limit   |

Contains mineral oil. The exposure limits for oil mist are 5 mg/m<sup>3</sup>OSHA PEL and 5 mg/m<sup>3</sup>ACGIH.

**8.2. 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** Skin protection is not required under normal conditions of use. Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms. Recommended: Viton or Nitrile gloves. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user



must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also consider all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved using local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor 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.

## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |  |
|---|--|
| <b>Physical State</b>                               | Gel  |
| <b>Color</b>  | Highly viscous yellow brown.   |
| <b>Odor</b>   | Petroleum distillate   |
| <b>Melting point / freezing point</b>               | No available information   |
| <b>Initial boiling point and boiling range</b>      | No available information   |
| <b>Flammability (solid, gas)</b>                    | No available information   |
| <b>Upper/lower flammability or explosive limits</b> | <b>Lower Explosive Limit:0.9</b><br><b>Upper Explosive Limit:7.0</b> |
| <b>Flash Point</b>                                  | 179°C, Test method: (Open cup)                                       |
| <b>Auto-ignition temperature</b>                    | 343C   |
| <b>Decomposition temperature</b>                    | No available information   |
| <b>pH</b>   | No available information   |
| <b>Viscosity (cSt)</b>                              | No available information   |
| <b>Solubility in Water</b>                          | No available information   |



|   |                          |
|---|--------------------------|
| Partition coefficient n-octanol/water (Log Kow) | No available information |
| Vapor pressure (Pa)                             | No available information |
| Relative Density                                | 0.9                      |
| Vapor Density                                   | >5                       |
| Evaporation rate (Ether = 1)                    | No available information |
| VOC Content                                     | 0.001                    |

### 9.2. Other information

DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No available information

### 10.4. Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### 10.5. Incompatible materials

No available information

### 10.6. Hazardous decomposition products

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

## Section 11. Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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 |
|---|--------------------------------|-----------------------------------|----------------------------------|-------------------------------------|--------------------------|
| Carbamodithioic acid, dibutyl-, methylene ester - (10254-57-6)        | No data available.             | No data available.                | No data available.               | No data available.                  | No data available.       |
| Distillates (petroleum), hydrotreated light naphthenic - (64742-53-6) | > 5,000.00, Rat - Category: NA | > 5,000.00, Rabbit - Category: NA | No data available.               | No data available.                  | No data available.       |

| Classification                | Category | Hazard Description                   |
|-------------------------------|----------|--------------------------------------|
| Acute toxicity (oral)         | ---      | ---                                  |
| Acute toxicity (dermal)       | ---      | ---                                  |
| Acute toxicity (inhalation)   | ---      | ---                                  |
| Skin corrosion/irritation     | ---      | ---                                  |
| Serious eye damage/irritation | ---      | ---                                  |
| Respiratory sensitization     | ---      | ---                                  |
| Skin sensitization            | 1        | May cause an allergic skin reaction. |
| Germ cell mutagenicity        | ---      | ---                                  |
| Carcinogenicity               | ---      | ---                                  |
| Reproductive toxicity         | ---      | ---                                  |
| STOT-single exposure          | ---      | ---                                  |
| STOT-single exposure          | ---      | ---                                  |
| STOT-repeated exposure        | ---      | ---                                  |
| Aspiration hazard             | ---      | ---                                  |

**11.2 Information on other hazards**

**11.2.1. Endocrine disrupting properties**

This product contains no endocrine disrupting chemicals.

**Section 12. Ecological information**

**12.1. Toxicity**

Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be harmful: LL/EL/IL50 10-100 mg/l (to aquatic organisms) LL/EL50 expressed as the nominal



amount of product required to prepare aqueous test extract.

### Aquatic Ecotoxicity

| Ingredient  | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l  | 3hr IC50 Bacteria mg/l | Biodegradability % |
|---|-----------------------|----------------------------|--------------------|------------------------|--------------------|
| Carbamodithioic acid, dibutyl-, methylene ester - (10254-57-6)        | No data available.    | No data available.         | No data available. | ---                    | ---                |
| Distillates (petroleum), hydrotreated light naphthenic - (64742-53-6) | No data available.    | No data available.         | No data available. | ---                    | ---                |

### 12.2. Persistence and degradability

Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

### 12.3. Bioaccumulative potential

Contains components with the potential to bioaccumulate.

### 12.4. Mobility in soil

Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile. Floats on water.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6 Endocrine disrupting properties

This product contains no endocrine disrupting chemicals.

### 12.7. Other adverse effects

No available information

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

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

## Section 14. Transport information



|   | ADR/RID  | IMO / IMDG (Ocean Transportation)                               | ICAO/IATA  |
|---|--|---|--|
| <b>14.1. UN number</b>                  | Not Regulated  | Not Regulated   | Not Regulated  |
| <b>14.2. UN proper shipping name</b>    | Not Regulated  | Not Regulated   | Not Regulated  |
| <b>14.3. Transport hazard class(es)</b> | <b>DOT Hazard Class:</b><br>Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>IMDG:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>Air class:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable |
| <b>14.4. Packing group</b>              | Not Applicable   | Not Applicable  | Not Applicable   |

**14.5. Environmental hazards**

Marine Pollutant: No;

**14.6. Special precautions for user**

No available information

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not Applicable

**Section 15. Regulatory information**

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

**EU Legislation**

REGULATION (EU) 2020/878 amending Regulations EU 2015/830 and (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). REGULATION (EC) 1272/2008 on the classification, labeling and packaging of substances and mixtures (CLP).

**National Legislation**

WGK Class: 1

**SVHC Ingredient:** Not Applicable



**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:**

Distillates (petroleum), hydrotreated light naphthenic (Use restricted. See item 28. (L))

**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out.

**Section 16. Other information**

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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:

Not Applicable

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - International Carriage of Dangerous Goods by Road (Accord Dangereux Routier)

CAS - Chemical Abstract Service

CLP - Classification Labeling and Packaging

DOT - Department of Transportation

EC50 - European Commission

EC50 - Half maximal effective concentration

ErC50 - The concentration of test substance which results in a 50 percent reduction in growth rate (ErC50) relative to the control within 72hrs exposure.

GHS - Globally Harmonized System

IARC - International Agency for Research on Cancer



IATA - International Civil Aviation Organization  
IC50 - The amount of a substance suspended in the air required to kills 50% of a test animals during a predetermined observation period.  
ICAO - International Civil Aviation Organization  
IMDG - International Maritime Dangerous Goods  
IMO - International Maritime Organization  
LC50 - Is the Lethal Concentration of a substance at which 50% of test animals die.  
LD50 - Is the Lethal Dose at which 50% of the animals will be expected to die.  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PBT - Persistent, Bioaccumulative and Toxic Chemicals  
PEL - Permissible Exposure Limit  
REACH - Registration, Evaluation, Authorization and Restriction of Chemicals  
RID - Regulations concerning the international carriage of dangerous goods by rail)  
STEL - Short Term Exposure Limit  
TWA - Time Weighted Average  
vPvB - Very Persistent and very Bio-accumulative  
WGK - Water Hazard Class

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification   | Justification      |
|--|--------------------|
| EUH208: Contains 1,3,4-thiadiazole, 2,5-bis(octyldithio)-. May produce an allergic reaction. | Calculation method |

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



**Safety Data Sheet**  
**105 HI Plus Grease**

**SDS Revision Date: 2/10/2024**

**End of Document**