



105 HI Plus Grease

SDS Revision Date: 12/1/2022

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

### 1.1. Product identifier

Product Identity	105 HI Plus Grease
Alternate Names	Hi Plus
Unique Formula Identifier	Barium Complex Grease

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

Intended use	See Technical Data Sheet.
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### 1.3. 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:

### 1.4. Emergency telephone number

Emergency:

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]

Skin Sens. 1;H317	May cause an allergic skin reaction. Contains 1,3,4-thiadiazole, 2,5-bis(octyldithio)-. May produce an allergic reaction.
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### 2.2. Label elements

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



Warning

H317 May cause an allergic skin reaction.

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

**[Prevention]:**

P261 Avoid breathing dust, fume, gas, mist, vapors, 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.

P321 Specific treatment (see information on this label).

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

P362 Take off contaminated clothing and wash before reuse.

**[Storage]:**

No CLP storage statements

**[Disposal]:**

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

2.3. Other hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

Section 3. Composition/information on ingredients
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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.

<b>Ingredient/Chemical Designations</b>	<b>Weight %</b>	<b>Classification according to regulation EC No. 1272/2008*</b>	<b>Notes</b>
Distillates (petroleum), hydrotreated light naphthenic CAS Number: 0064742-53-6 EC No. 265-156-6 Index No.: 649-466-00-2	25 - 50	Asp. Tox. 1;H304	H; L <sup>^CLP 3.1</sup>
Carbamodithioic acid, dibutyl-, methylene ester CAS Number: 0010254-57-6 EC No. 233-593-1 Index No.:	1 - 5	Not Classified	
1,3,4-thiadiazole, 2,5-bis(octyldithio)- CAS Number: 0013539-13-4 EC No. 236-912-2 Index No.:	0.10 - 1.0	Skin Irrit. 2;H315 Skin Sens. 1;H317 Acute Tox. 4;H332 Eye Irrit. 2;H319	

<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).

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been 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

### 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.
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Skin	May cause an allergic skin reaction.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically.
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### 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.

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### Section 6. Accidental release measures

#### 6.1. 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.

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

#### 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
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#### 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.

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

#### 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

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

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
0010254-57-6	Carbamodithioic acid, dibutyl-, methylene ester	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
0013539-13-4	1,3,4-thiadiazole, 2,5-bis(octyldithio)-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
0064742-53-6	Distillates (petroleum), hydrotreated light naphthenic	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	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 10 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. Oil impervious gloves and oil impermeable apron 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 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.

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

## Section 9. Physical and chemical properties

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

Appearance	Color: Brown Physical State: Gel
Odor	Petroleum distillate
Odor threshold	No available information
pH	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	No available information
Flash Point	179°C, Test method: (Open cup)
Evaporation rate (Ether = 1)	No available information
Flammability (solid, gas)	No available information
Upper/lower flammability or explosive limits	<b>Lower Explosive Limit:</b> 0.9 <b>Upper Explosive Limit:</b> 7.0
Vapor pressure (Pa)	No available information
Vapor Density	>5
Relative Density	0.9
Solubility in Water	No available information
Partition coefficient n-octanol/water (Log Kow)	No available information
Auto-ignition temperature	343C
Decomposition temperature	No available information
Viscosity (cSt)	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).

<b>Ingredient</b>	<b>Oral LD50, mg/kg</b>	<b>Skin LD50, mg/kg</b>	<b>Inhalation Vapour LC50, mg/L/4hr</b>	<b>Inhalation Dust/Mist LC50, mg/L/4hr</b>	<b>Inhalation Gas LC50, ppm</b>
Carbamodithioic acid, dibutyl-, methylene ester - (10254-57-6)	No data available	No data available	No data available	No data available	No data available
1,3,4-thiadiazole, 2,5-bis(octyldithio)- - (13539-13-4)	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 -	> 5,000.00, Rabbit -	No data available	No data available	No data available



	Category: NA	Category: NA			
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### Carcinogen Data

CAS No.	Ingredient	Source	Value
0010254-57-6	Carbamodithioic acid, dibutyl-, methylene ester	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0013539-13-4	1,3,4-thiadiazole, 2,5-bis(octyldithio)-	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0064742-53-6	Distillates (petroleum), hydrotreated light naphthenic	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		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)	---	---
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-repeated exposure	---	---

Aspiration hazard	---	---
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#### 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

<b>Ingredient</b>	<b>96 hr LC50 fish, mg/l</b>	<b>48 hr EC50 crustacea, mg/l</b>	<b>ErC50 algae, mg/l</b>	<b>3hr IC50 Bacteria mg/l</b>	<b>Biodegradability %</b>
Carbamodithioic acid, dibutyl-, methylene ester - (10254-57-6)	---	---	---	---	---
1,3,4-thiadiazole, 2,5- bis(octyldithio)- - (13539- 13-4)	---	---	---	---	---
Distillates (petroleum), hydrotreated light naphthenic - (64742-53-6)	---	---	---	---	---

#### 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

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	<b>DOT Hazard Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air class:</b> Not Applicable <b>Sub Class:</b> Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	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

None noted.

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:

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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