

Product name	MOBIL SHC GREASE 681 WT	SDS Number:	2015A0209750_1182383
Date of revision	23 July 2025	Version	2.02
First issue date	23 August 2023		

SAFETY DATA SHEET



MOBIL SHC GREASE 681 WT

Section 1. Identification

Product name	: MOBIL SHC GREASE 681 WT
Product description	: synthetic base stocks and additives
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Identified uses	: grease
Uses advised against	: This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.
Supplier	: ExxonMobil (China) Investment Co., Ltd. 17/F., Metro Tower 30 Tian Yao Qiao Road Shanghai 200030 China
24 Hour Emergency Telephone	: (+86)0532-83889090 (NRCC)
Supplier General Contact	: (+86) 400-820-6130
E-Mail	: consumerservice@mobil.com.cn
FAX	: (+86) 021-23515968
Supplier	: EXXONMOBIL CHEMICAL SERVICES (SHANGHAI) CO., LTD Correspondence address: 1099 Zixing Road Minhang District SHANGHAI China
Supplier General Contact	: (+86) 400-820-6130
E-Mail	: consumerservice@mobil.com.cn
FAX	: (+86) 021-23515968
SDS Internet Address	: www.sds.exxonmobil.com

Section 2. Hazards identification

Classification of the substance or mixture is in accordance with national standard GB30000 series of Specification/Rules for classification and labeling of chemicals	
<u>Emergency overview</u>	
Physical state	: Liquid. [Semi-fluid]
Colour	: Colourless
Odour	: Characteristic
Classification of the substance or mixture	: Not classified.
<u>Precautionary statements</u>	
Physical and chemical hazards	: No known significant effects or critical hazards.

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Section 2. Hazards identification

Health hazards : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Environmental hazards : No known significant effects or critical hazards.

Other hazards which do not result in classification : None known.

Nota : This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
benzenamine, n-phenyl-, reaction products with 2,4,4-trimethylpentene amines, c16-18 and c18-unsatd. alkyl, o,o-di-bu phosphorothioates	≤3	CAS: 68411-46-1
2,5-dimercapto-1,3,4-thiadiazole derivative	<1	Proprietary
amines, c12-14-tert-alkyl	<1	CAS: 13539-13-4
	≤0.21	CAS: 68955-53-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

First aid

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Section 4. First-aid measures

Skin contact
: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Get medical attention.

Eye contact
: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Ingestion
: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation

Skin contact

Eye contact

Ingestion

: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation

Skin contact

Eye contact

Ingestion

:

No specific data.
Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.
No specific data.
No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments

Protection of first-aiders

Notes to physician

:

No specific treatment.
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

:

Use dry chemical, CO₂, water spray (fog) or foam.
Do not use water jet.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

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Section 5. Firefighting measures

Hazardous combustion products	: Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, sulfur oxides
Special protective actions for fire-fighters	: Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent re-ignition. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill	: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Confine the spill immediately with booms. Skim from surface Warn other shipping. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Precautionary measures to prevent the occurrence of secondary disasters : Prevent entry into sewers, water courses, basements or confined areas.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

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Section 7. Handling and storage

Precautions for safe handling

- Precautions for operating** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Static Accumulator** : This material is not a static accumulator.
- Conditions for safe storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
dodecene, polymer with 1-octene, hydrogenated 1-decene, homopolymer hydrogenated 1-dodecene, polymer with 1-decene, hydrogenated 1-decene, polymer with 1-octene and 1-dodecene, hydrogenated	ExxonMobil (COMPANY) TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction). ExxonMobil (COMPANY) TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction). ExxonMobil (COMPANY) TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction). ExxonMobil (COMPANY) TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction).

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Nitrile, minimum 0.38 mm thickness or comparable protective barrier material

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance and physical state

Physical state : ☒ Liquid. [Semi-fluid]

Colour : Colourless

Odour : Characteristic

Odour threshold : Not available.

pH : Not applicable.

Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling range : >204°C (>399.2°F)

Flash point : Open cup: >148.89°C (>300°F) [EST. FOR OIL, ASTM D-92 (COC)]

Evaporation rate : Not available.

Flammability : Ignitable

Lower and upper explosion limit/flammability limit : ☒ Not available.

Vapour pressure : <0.1 mm Hg [20 °C]

Relative vapour density : ☒ Not available.

Relative density : 0.88

Solubility in water : Negligible

Partition coefficient: n-octanol/water : >3.5

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Section 9. Physical and chemical properties

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : 670 cSt [40 °C] [ASTM D 445]
76 cSt [100 °C] [ASTM D 445]

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : High energy sources of ignition. Excessive heat.

Incompatible materials : Strong oxidisers

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
amines, c12-14-tert-alkyl	Rat - Oral - LD50 612 mg/kg Rat - Dermal - LD50 251 mg/kg Rat - Inhalation - LC50 Vapour 1.19 mg/l [4 hours]

Conclusion/Summary

Inhalation : Minimally Toxic. No end point data for material. Based on assessment of the components.

Dermal : Minimally Toxic. No end point data for material. Based on assessment of the components.

Oral : Minimally Toxic. No end point data for material. Based on assessment of the components.

Irritation/Corrosion

Conclusion/Summary

Skin : Negligible irritation to skin at ambient temperatures. No end point data for material. Based on assessment of the components.

Eyes : May cause mild, short-lasting discomfort to eyes. No end point data for material. Based on assessment of the components.

Respiratory : Negligible hazard at ambient/normal handling temperatures. No end point data for material.

Respiratory or skin sensitization

Conclusion/Summary

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Section 11. Toxicological information

- Skin

: Not expected to be a skin sensitizer. No end point data for material. Based on assessment of the components.
- Respiratory

: Not expected to be a respiratory sensitizer. No end point data for material.
- Germ Cell Mutagenicity

Conclusion/Summary

: Not expected to be a germ cell mutagen. No end point data for material. Based on assessment of the components.
- Carcinogenicity

Conclusion/Summary

: Not expected to cause cancer. No end point data for material. Based on assessment of the components.
- Reproductive toxicity

Conclusion/Summary

: May damage fertility. May damage the unborn child. No end point data for material. Based on assessment of the components.
- Specific target organ toxicity (single exposure)

Conclusion/Summary

: Not expected to cause organ damage from a single exposure. No end point data for material.
- Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
MOBIL SHC GREASE 681 WT	Not applicable.	-

- Conclusion/Summary

: Not expected to cause organ damage from prolonged or repeated exposure. No end point data for material. Based on assessment of the components.
- Aspiration hazard

Conclusion/Summary

: Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. Data available.

- Other information

Contains

: Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans. Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (substituted DPA): Results from a supplier's extended one-generation dietary study with 10-week pre-mating administration of substituted DPA included decreased body weight and body weight gains in parental females during gestation and lactation, decreased number of implantation sites and decreased mean litter size. A representative formulation containing substituted DPA was tested in a rat oral gavage reproductive/developmental toxicity screening study (OECD TG 421) with a 10-week pre-mating administration period. Study results included decreased body weight and body weight gain starting in pre-mating and continuing through gestation and lactation in parental females, decreased number of implantation sites and decreasing trend in litter size. A 5 wt% classification threshold for the reproductive effects of substituted DPA was derived based on the NOAEL (50 mg/kg/day) and is consistent with the NOAEL in the supplier's study.
- Product

: Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

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Section 12. Ecological information

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

Toxicity

Product/ingredient name	Result
PD MOBIL SHC GREASE 681 WT <C>	Acute - LL50 daphnia - <i>Ceriodaphnia dubia</i> >110 mg/l - data for similar materials [48 hours] Acute - ErL50 Algae - <i>Pseudokirchneriella subcapitata</i> >110 mg/l - data for similar materials [72 hours] Acute - LL50 Fish - <i>Pimephales promelas</i> >110 mg/l - data for similar materials [96 hours]

Conclusion/Summary

Acute toxicity	: Not expected to be harmful to aquatic organisms.
Chronic toxicity	: Not expected to demonstrate chronic toxicity to aquatic organisms

Persistence and degradability

Not determined.

Bioaccumulation/Accumulation

Not determined.

Mobility in soil

Mobility	: Base oil component -- Expected to partition to sediment and wastewater solids. Low solubility and floats and is expected to migrate from water to the land.
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Other ecological information

Other adverse effects	: No known significant effects or critical hazards.
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Section 13. Disposal considerations

Disposal methods	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.
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Section 14. Transport information

	JT/T617	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name		-	-
Transport hazard class(es)		-	-
Packing group		-	-
Environmental hazards	No.	No.	No.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Incompatible materials : Strong oxidisers

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

This material is not considered hazardous according to national standard GB30000 series of Specification/ Rules for classification and labeling of chemicals

Refer to below China regulations (if applicable):

The General Rules for preparation of precautionary label for Chemicals (GB 15258-2009)
Regulations on the Safe Management of Hazardous Chemicals
Measures for the Environmental Management Registration of New Chemical Substances

Inventory list

- | | |
|--|--|
| Australia inventory (AIIC) | : All components are listed or exempted. |
| Canada inventory (DSL-NDSL) | : All components are listed or exempted. |
| China inventory (IECSC) | : All components are listed or exempted. |
| Japan inventory (CSCL) | : All components are listed or exempted. |
| Japan inventory (Industrial Safety and Health Act) | : All components are listed or exempted. |
| New Zealand Inventory of Chemicals (NZIoC) | : All components are listed or exempted. |
| Philippines inventory (PICCS) | : Restrictions Apply |
| Korea inventory (KECI) | : All components are listed or exempted. |
| Taiwan Chemical Substances Inventory (TCSI) | : All components are listed or exempted. |
| United States inventory (TSCA 8b) | : All components are active or exempted. |

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Section 15. Regulatory information

Section 16. Other information

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Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Product code : 2015A0209750_1182383

Notice to reader

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