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|-------------------------|---------------------|--------------------|-------------------------|
| <b>Product name</b>     | MOBIL VACUOLINE 533 | <b>SDS Number:</b> | 201560504065_P000003517 |
| <b>Date of revision</b> | 10 July 2025        | <b>Version</b>     | 2.01                    |
| <b>First issue date</b> | 31 December 2024    |                    |                         |

# SAFETY DATA SHEET



MOBIL VACUOLINE 533

## Section 1. Identification

|                                                                                             |                                                                                                                                         |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name</b>                                                                         | : MOBIL VACUOLINE 533                                                                                                                   |
| <b>Product description</b>                                                                  | : base oil and additives                                                                                                                |
| <b><u>Relevant identified uses of the substance or mixture and uses advised against</u></b> |                                                                                                                                         |
| <b>Identified uses</b>                                                                      | : Circulating oil, Lubricant                                                                                                            |
| <b>Uses advised against</b>                                                                 | : This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.                |
| <b>Supplier</b>                                                                             | : ExxonMobil (China) Investment Co., Ltd.<br>17/F., Metro Tower<br>30 Tian Yao Qiao Road<br>Shanghai 200030 China                       |
| <b>24 Hour Emergency Telephone</b>                                                          | : (+86)0532-83889090 (NRCC)                                                                                                             |
| <b>Supplier General Contact</b>                                                             | : (+86) 400-820-6130                                                                                                                    |
| <b>E-Mail</b>                                                                               | : consumerservice@mobil.com.cn                                                                                                          |
| <b>FAX</b>                                                                                  | : (+86) 021-23515968                                                                                                                    |
| <b>Supplier</b>                                                                             | : EXXONMOBIL CHEMICAL SERVICES (SHANGHAI) CO., LTD<br>Correspondence address:<br>1099 Zixing Road<br>Minhang District<br>SHANGHAI China |
| <b>Supplier General Contact</b>                                                             | : (+86) 400-820-6130                                                                                                                    |
| <b>E-Mail</b>                                                                               | : consumerservice@mobil.com.cn                                                                                                          |
| <b>FAX</b>                                                                                  | : (+86) 021-23515968                                                                                                                    |
| <b>SDS Internet Address</b>                                                                 | : www.sds.exxonmobil.com                                                                                                                |

## Section 2. Hazards identification

|                                                                                                                                                                              |                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Classification of the substance or mixture is in accordance with national standard GB30000 series of Specification/Rules for classification and labeling of chemicals</b> |                                                     |
| <b><u>Emergency overview</u></b>                                                                                                                                             |                                                     |
| <b>Physical state</b>                                                                                                                                                        | : Liquid.                                           |
| <b>Colour</b>                                                                                                                                                                | : Amber                                             |
| <b>Odour</b>                                                                                                                                                                 | : Characteristic                                    |
| <b>Classification of the substance or mixture</b>                                                                                                                            | : Not classified.                                   |
| <b><u>Precautionary statements</u></b>                                                                                                                                       |                                                     |
| <b>Physical and chemical hazards</b>                                                                                                                                         | : 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     |
|--------------------------------------------------|---------|-----------------|
| naphthalenesulfonic acid, dinonyl-, calcium salt | ≤0.3    | CAS: 57855-77-3 |

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. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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.

|                                       |                |                               |               |                |        |      |
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## Section 4. First-aid measures

**Eye contact**
: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Ingestion**
: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

**Inhalation**

: No known significant effects or critical hazards.

**Skin contact**

: No known significant effects or critical hazards.

**Eye contact**

: No known significant effects or critical hazards.

**Ingestion**

: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Inhalation**

: No specific data.

**Skin contact**

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

**Eye contact**

: No specific data.

**Ingestion**

: No specific data.

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

**Specific treatments**

: No specific treatment.

**Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training.

**Notes to physician**

: 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**

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media**

: Do not use water jet.

**Specific hazards arising from the chemical**

: In a fire or if heated, a pressure increase will occur and the container may burst.

**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.

|                                                |                |                               |               |                |        |      |
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## 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.
- 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** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Confine the spill immediately with booms. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. 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.

## Section 7. Handling and storage

### Precautions for safe handling

- Precautions for operating** : Put on appropriate personal protective equipment (see Section 8).
- 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 a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.

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Section 7. Handling and storage

**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. 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                                                                                                                              |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| residual oils (petroleum), hydrotreated                   | <b>ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined]</b><br>TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. |
| distillates (petroleum), solvent-dewaxed heavy paraffinic | <b>ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined]</b><br>TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. |
| distillates (petroleum), hydrotreated heavy paraffinic    | <b>ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined]</b><br>TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. |

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

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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.

**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.

**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.

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

**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.  
**Colour** : Amber  
**Odour** : Characteristic  
**Odour threshold** : Not available.  
**pH** : Not applicable.  
**Melting point/freezing point** : Not available.  
**Boiling point or initial boiling point and boiling range** : >315.56°C (>600°F)  
**Flash point** : Open cup: 250°C (482°F) [ASTM D-92]  
**Evaporation rate** : Not available.  
**Flammability** : Ignitable  
**Lower and upper explosion limit/flammability limit** : Lower: 0.9%  
Upper: 7%  
**Vapour pressure** : <0.1 mm Hg [20 °C]  
**Relative vapour density** : >2 [Air = 1]  
**Relative density** : 0.89  
**Solubility in water** : Negligible  
**Partition coefficient: n-octanol/water** : >3.5  
**Auto-ignition temperature** : Not available.  
**Decomposition temperature** : Not available.  
**Viscosity** : 18.8 cSt [100 °C] [ASTM D 445]  
220 cSt [40 °C] [ASTM D 445]  
**Particle characteristics**

**Median particle size** : Not applicable.  
**Pour point** : -12°C [ASTM D97]  
**DMSO Extract (mineral oil only), IP-346** : <3 % by weight

**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.

|                                       |                |                               |               |                |        |      |
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Section 10. Stability and reactivity

- 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

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

- 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

- : Not expected to be a reproductive toxicant. 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 VACUOLINE 533     | 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.

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## Section 11. Toxicological information

**Other information**

**Contains** : Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals.

## 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**

**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**

**Biodegradability** : Base oil component -- Expected to be inherently biodegradable

**Bioaccumulation/Accumulation**

**Conclusion/Summary** : Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

**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.

**Other ecological information**

**Other adverse effects** : No known significant effects or critical hazards.

## 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, CO<sub>2</sub>, 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)** : At least one component is not listed.
- Japan inventory (Industrial Safety and Health Act)** : Not determined.
- New Zealand Inventory of Chemicals (NZIoC)** : All components are listed or exempted.
- Philippines inventory (PICCS)** : All components are listed or exempted.
- 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

### History

- Date of issue/Date of revision** : 10 July 2025
- Date of previous issue** : 8 July 2025
- Version** : 2.01
- 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** : 201560504065\_P000003517

### Notice to reader

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