

# Material Safety Data Sheet

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## COMPANY IDENTIFICATION.

Company name: EXXON MOBIL CO., LTD.

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## CHEMICAL PRODUCT IDENTIFICATION.

Product name: TOYOTA SM 5W-30

Product code: 116772-A

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## COMPOSITION/INFORMATION ON INGREDIENTS.

Substance/Mixture: Mixture

Components: Lubricating Base Oils (Content; >80wt%)

Additives (Content; <20wt%)

Component comment: This product fit the ACGIH definition for mineral oil mist.  
The ACGIH TLV is 5mg/m<sup>3</sup>, the OSHA PEL is 5mg/m<sup>3</sup>  
This components are included on the U.S.TSCA Inventory.

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## HAZARDS IDENTIFICATION.

Emergency overview: Prolonged and/or Repeated contact may cause irritation.

Potential Health effects Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to interval organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Contains a petroleum-based mineral oil.

May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of

oil mist at airborne levels the recommended mineral oil mist exposure limit.

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#### FIRST AID MEASURES.

Eye contact: Flush eyes fresh water for at least 15 minutes, then seek medical attention.

Skin contact: Wash contact areas thoroughly with soap and water.

Inhalation: Remove to fresh air. Cover the victim's body with blanket, rest in keeping warm, and seek medical attention immediately. rest in keeping warm, and seek medical attention immediately.

Ingestion: If swallowed, do not induce vomiting. Seek medical attention immediately.  
If contaminated in mouth, flush thoroughly with water

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#### FIRE-FIGHTING MEASURES.

Flammable properties:

Flash point and Method: 200°C(COC)

Flammable Limits: Lower 1vol% Upper 7vol%(estimate).

Extinguishing media: CO<sub>2</sub>, Dry Chemical, Foam and Water Fog.

Fire fighting instructions:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion products:

Normal combustion forms carbon dioxide and water. Incomplete combustion can produce carbon monoxide.

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#### ACCIDENTAL RELEASE MEASURES.

Eliminate all open flame in vicinity of spill or released vapor. Stop the source of the leak or release. Clean up releases as soon as possible, observing precaution in Exposure Controls/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

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### HANDLING AND STORAGE

Do not use or store near flame, spark or hot surfaces. Use only in well ventilate area. Avoid contact with the skin, eyes and clothing in handling. Wear safety glasses, gloves and clothing while at work. Keep container in a cool, well-ventilated area. Keep container tightly closed when do not use. Do not weld, heat drill container. Residue may ignite with explosive violence if heated sufficiently  
CAUTION: Do not use pressure to empty drum or may rupture with explosive force.

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### EXPOSURE CONTROLS /PERSONAL PROTECTION.

Engineering Controls: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Personal protective equipment:

Eye/Face Protection: Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin protection: Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.

Respiratory protection: If operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.

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### PHYSICAL AND CHEMICAL PROPERTIES.

Physical description: Brown liquid with characteristic odor.

Boiling point: >250 (IBP)

Pour point: <-36.0°C

Solubility: Negligible in water

Density: 0.86g/cm<sup>3</sup>(15°C)

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### STABILITY AND REACTIVITY.

Hazardous decomposition products: No data available

Chemical stability: Stable

Condition to avoid: No data available

Incompatibility with other materials: May react with strong oxidizing agent,  
Such as chlorates, nitrates, peroxides, etc.

Hazardous polymerization: polymerization will not occur.

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#### TOXICOLOGICAL INFORMATION.

Eye effects: No product toxicology data available.

Skin effects: No data available.

Acute oral effects: No data available.

Acute inhalation effects: No data available.

Additional toxicology information:

None of the oils requires a cancer warning under the OSHA Hazard Communication Standard(29CFR 1910. 1200). These oils have not been listed in the National Toxicology Program(NTP)Annual Report nor have they been classified by the International Agency for Research on Cancer(IARC)as; IARC group 3(The agent is not classiffable as a possible Carcinogen to humans.)

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#### ECOLOGICAL INFORMATION.

Ecotoxicity : No data available.

Environmental fate: This material is not expected to be readily biodegradable.

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#### DISPORSAL CONSIDERATIONS.

Place contaminated material in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

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#### TRANSPORT INFORMATION.

The description shown may not apply to all shipping situations. Consult 49CFR,or Dangerous Goods Regulations, for additional description requirements

(e,g.,technical name) and mode-specific or quantity-specific shipping requirements.

UN No.: Not applicable

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#### REGULATORY INFORMATION.

None of the listed components of this material are found on the regulatory lists indicates.

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OTHER INFORMATION.

NFPA RATINGS : Health 1; Flammability 1; Reactivity 0 ;  
(0-Least, 1- Slight, 2- Moderate, 3-High, 4-Extreme)

These values are obtained using the guidelines or published evaluation prepared by the National Fire Protection Association(NFPA).

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