



Rev: 02

Date: 13-03-2024

Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: 10w40 SM/CI4

Product use: Engine / Crank case Oil

Supplier: Evolution Oils

86 Houghton Dr,

Houghton Estate,

Johannesburg, 2198

Telephone: 011 718 3956

2. HAZARDS IDENTIFICATION

Statement of hazardous/dangerous nature

Not classified as "extremely hazardous substance" in accordance with the US superfund Amendments.

While this material is not considered to be hazardous, it should be handled in accordance with good industrial hygiene and safety practices.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Highly refined mineral oil and additives

This product does not contain any hazardous ingredients at or above regulated thresholds.

4. FIRST-AID MEASURES

Skin contact

Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Eye contact

In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Medical Advice

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

5. FIRE - FIGHTING MEASURES

Extinguishing Media Suitable

In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

Do not use water jet.

Protection of fire-fighters

Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Special fire-fighting procedures

None identified

Unusual fire/explosion Hazards

This material is not explosive as defined by established regulatory criteria.

Hazards from combustion products

Carbon dioxide and carbon monoxide and sulfur.

Flammability of the Product : Low hazard. May be combustible or burn at high temperatures above flash point.

Auto Ignition Temperature : >250°C (482°F)

Flash Point : >200°C (>392°F)

Hazardous Combustion : These products are smoke, carbon monoxide, carbon dioxide and traces of oxides.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all firefighting procedures (See Section: "Fire-fighting measures")

Methods and materials for containment and clean-up

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilt material with soil and prevent runoff entering surface waterways. See Section 13 for Waste Disposal Information.

7. HANDLING AND STORAGE

Handling

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Store under cover away from heat and sources of ignition.

Additional information-Storage

Product contaminated rags paper or material used to absorb spillages represent a fire hazard and should not be allowed to accumulate. Dispose of safely immediately after use.

8 . EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name Occupational exposure limits

Base oil. TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral.

Whilst specific OELs for certain components are included in this data sheet, it should be noted that other components of the preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

Control Measures

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

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.

Biological Limit Values

No biological limit allocated.

Personal protective equipment Hands

Wear protective gloves if prolonged or repeated contact is likely. Chemical resistant gloves. Recommended: Nitrile gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eyes

Safety glasses with side shields.

Skin and Body

Avoid prolonged or repeated contact with skin. Wear protective clothing if prolonged or repeated contact is likely.

Respiratory system

Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist (Type P1) filters. Filter capacity and respirator type depends on exposure level.

9. Physical and chemical properties

Physical State	: Liquid
Appearance and Colour	: Brown solution.
Odour	: Petroleum odour. pH :
Flash Point (COC)	: > 200°C (> 392°F)
Boiling/Condensation Point	: > 300°C (> 572°F)
Pour Point °C	: -36
Freezing Point	: Not Available
Density at 20°C	: 0.874
Vapor Pressure	: < 0.5mm Hg @ 20°C (68°F)
Vapor Density	: Not Available
% Volatility, By volume	: Not Available
Evaporation Rate	: Negligible
VOC	: Not Applicable
Viscosity cSt @ 40°C	: 95.7
Viscosity cSt @ 100°C	: 14.4

10. Stability and reactivity

Hazardous polymerization

Will not occur

Stability

This product is stable

Conditions to Avoid

Keep away from fire, extreme heat, and oxidising compounds

Incompatibility with various substances/Hazardous Reactions

Reactive with oxidizing compounds

11. Toxicological information

Effects and symptoms Eyes

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Skin

Prolonged or repeated contact can de-fat the skin and lead to irritation and/or dermatitis.

Inhalation

Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea

Carcinogenic effects

No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC).

12. Ecological information

Ecotoxicity

Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted].

Biodegradability

The biodegradability of this material has not been determined.

Mobility

Spillages may penetrate the soil causing ground water contamination.

13. Disposal considerations

Disposal Consideration / Waste information

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

Special Precautions for Landfill or Incineration

No additional special precautions identified.

14. Transport information

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

Special precautions for user

See section 7 of this data sheet for additional handling information

15. Regulatory information

Standard for the Uniform Scheduling of Drugs and Poisons

Not regulated.