

SAFETY DATA SHEET

ENGINE OIL 15W40 CH4
Regulation (EC) No. 1907 / 2006
(REACH), Annex II, as amended by Commission Regulation (EU) 2015 / 830.

1. PRODUCT AND COMPANY IDENTIFICATION

MSDS Number: AF-SDS-067

Version Date: 01.04.2020

Product Name: ENGINE OIL 15W40 CH4

Product Use: ENGINE OIL 15W40 CH4

Synonyms: No information available

Company Information

Hitachi Astemo India Private Limited.

Formerly known as Hitachi Astemo Brake Systems India Private Limited

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2 COMPONENT INFORMATION

Chemical characterization : Mixture of highly refined mineral oils and additives. (PCA-content < 3% - IP 346)

Substance name	Contents	Cas No.	EC No	Ref REACH	Classification
Phosphorodithioic acid, mixed O, Obis (1,3 - dimethylbutyl and iso-Pr) esters, zinc	0.71 - 1.32 %	84605-29-8	283-392-8	01-2119493626-26	Xi; R38-41 N; R51-53
Calcium sulfonate	0.47 - 0.88 %	70024-69-0	274-263-7	No	R53
Dodecylphenol, mixed isomers (branched)	0.021 - 0.039 %	121158-58-5	310-154-3	01-2119513207-49	Xn; R62 Xi; R36/38 N; R50-53

3. HAZARDS IDENTIFICATION Emergency and Hazards Overview

Classification of the substance or Mixture : Not classified as dangerous under EC criteria.

Signal word

Danger



Most important adverse physicochemical effects

: Combustible liquid.

Most important adverse human health effects

: Sensitizing substances; allergic reactions possible.

Most important adverse environmental effects

: No specific risk for the environment.

Label elements:**- safety advices**

: Do not empty into drains; dispose of this material and its container in a safe way.

Other hazards

: During use in engines, contamination of oil with low levels of cancer-causing combustion products occur. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. Avoid prolonged contact with used motor oil. Overexposure to oil mist may cause respiratory irritations. Oil mist deposited on surfaces may cause slip hazard.

4. FIRST AID INFORMATION**Description of first aid measures:****- after inhalation**

: Assure fresh air breathing. If you feel unwell, seek medical advice.

- after contact with skin

: Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Never use kerosene or gasoline for cleaning the skin.

- after contact with the eyes

: Rinse immediately with plenty of water. Seek medical attention if irritation develops.

- after ingestion

: Do not induce vomiting.

: Seek medical attention immediately.

Most important symptoms and effects, both acute and delayed

: Symptoms of overexposure to vapors include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision.

Indication of any immediate medical attention and special treatment needed measures

: The ingestion of lubricating oils is an unlikely event. No specific therapy is indicated in view of the very low toxicity of the base oil(s) and other components. Treat with supportive as appropriate to the patient's condition.

5. FIRE AND EXPLOSION INFORMATION**Suitable extinguishing media**

: Water fog. Carbon dioxide. Foam. Dry chemical product.

Extinguishing media which shall not be used for safety reasons.

: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

: Do not use a heavy water stream.

: Under fire conditions, hazardous fumes will be present.

Advice for fire fighters

: Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

: Do not enter fire area without proper protective equipment, including respiratory protection.

: Use water spray or fog for cooling exposed containers.

: Avoid fire-fighting water to enter environment.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment, and emergency procedures:****- for non-emergency personnel**

: Evacuate unnecessary personnel.

- for emergency responders

: Equip clean-up crew with proper protection. Wear suitable protective clothing, gloves, and eye or face protection. Remove ignition sources.

Environmental precautions

: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

: Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

Reference to other sections

: See Heading 8 &

7. HANDLING AND STORAGE INFORMATION

Precautions for safe handling	: Keep away from sources of ignition. No naked lights. No smoking. Use only in well ventilated areas. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with soap and water before leaving work.
Conditions for safe storage, including:	Store this product in a dry location where it can be protected from the elements. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame, strong oxidizers, radiations, and other initiators. Keep at temperature not exceeding 50°C.
	any incompatibilities
Specific end use(s)	: Use only as engine oil.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION**Control parameters:****Occupational exposure limit values:**

- Australia	: National exposure standards for atmospheric contaminants in the occupational environment; Time-Weighted Average (normal eight-hour working day, for a five-day working week): 5 mg/m ³ for oil mist, refined mineral. (National Occupational Health & Safety Commission [NOHSC: 1003(1995)])
- Canada	: The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned mineral oil mist a threshold limit value (TLV) of 5 mg/m(3) as a Time Weighted Average (TWA) for a normal 8-hour workday and a 40-hour workweek and a short-term exposure limit (STEL) of 10 mg/m(3) for periods not to exceed 15 minutes. Exposures at the STEL concentration should not be repeated more than four times a day and should be separated by intervals of at least 60 minutes. [ACGIH 1994, p. 28]
- EU	: Occupational Exposure Standard (OES) of 5 mg/m ³ , 8-hour time-weighted average reference period for oil mist.
- USA	: The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned mineral oil mist a threshold limit value (TLV) of 5 mg/m(3) as a Time Weighted Average (TWA) for a normal 8-hour workday and a 40-hour workweek and a short-term exposure limit (STEL) of 10 mg/m(3) for periods not to exceed 15 minutes. Exposures at the STEL concentration should not be repeated more than four times a day and should be separated by intervals of at least 60 minutes. [ACGIH 1994, p. 28]

Occupational Exposure Limits**Biological limit values** : No data**Exposure controls:****Appropriate engineering controls** : Provide adequate ventilation to minimize dust and/or vapour concentrations**Individual protection measures, Such as personal protective equipment:**

- eye / face protection	: Chemical goggles or safety glasses (EN 166)
- skin protection	: Wear suitable protective clothing.
- hand protection	: Wear suitable gloves resistant to chemical penetration. (EN 374)
- respiratory protection	: The use of Filter type A (EN 141) is recommended If exceeding the Occupational Exposure Limit.
- others	: Do not wear leather soled shoes.
Environmental exposure controls	: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow Brown	
Odor: Light odour of petroleum	Vapor Pressure: > 0.01 mm Hg @ 68 F

Physical State: Oily Liquid	Vapor Density (air=1): No data available
pH: No data available	Percent Volatile by Volume: No data available
Boiling Point: No data available	Volatile Organic Content: No data available
Melting Point: No data available	Molecular Weight: No data available
Specific Gravity: 0.870-0.881	Average Carbon Number: No data available
Pour Point: -24 C	Viscosity @ 100 C : 14.3 cst
Flash point: 244 C	Viscosity @ 40 C: 130 cSt
Solubility in Water: Insoluble	
Octanol /water Coefficient: Log K _{ow} := No data available	

10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable

Conditions to Avoid: High heat and open flames.

Incompatible Materials to Avoid: May react with strong oxidizing agents.

Other: No information available.

11. TOXICOLOGICAL INFORMATION

Primary Eye Irritation: No information available

Primary Skin Irritation: No information available

Acute Dermal Toxicity: No information available

Subacute Dermal Toxicity: No information available

Dermal Sensitization: No information available

Inhalation Toxicity: No information available

Inhalation Sensitization: No information available

Oral Toxicity: No information available

Mutagenicity: No information available

Carcinogenicity: The International Agency for Research on Cancer (IARC) has concluded that highly refined mineral oils are Group 3 substances, "not classifiable as to their carcinogenicity to humans," based on inadequate human and inadequate animal evidence.

Reproductive and Developmental Toxicity: No information available

Teratogenicity: No information available

Immunotoxicity: No information available

Neurotoxicity: No information available

Other: No information available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No information available

Terrestrial Toxicity: No information available

Chemical Fate and Transport: No information available

Other: No information available.

13. DISPOSAL INFORMATION

Regulatory Information: All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Caution! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.

Waste Disposal Methods: Waste material may be landfilled or incinerated at an approved facility. Materials should be recycled if possible.

Other: No information available.

14. TRANSPORTATION INFORMATION

Highway / Rail (Bulk): Not Regulated

Highway / Rail (Non-Bulk): Not Regulated

All Shipments requires the shipper to determine the proper shipping description of the material that is being shipped. The shipping information and description contained in this section may not be suitable for all shipments of this material, but may help the shipper determine the proper shipping description for a particular shipment.

International Information Vessel:

IMDG Regulated: - **IMDG Not Regulated:** X

Air: ICAO Regulated: --**ICAO Not Regulated:** X

Other: No information available

15. Regulatory Information

Regulatory Lists Searched: The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.

Health & Safety: 10 - IARC carcinogen, 11 - NTP carcinogen, 12 - OSHA carcinogen, 15 - ACGIH TLV, 16 - OSHA PEL, 17 - NIOSH exposure limit, 20 - US DOT Appendix A, Hazardous substances, 22 - FDA 21 CFR Total food additives, 23 - NFPA 49 or 325

Environmental: 30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depleters, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds (VOC's) in SOCMI, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA / SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45

- CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S)MCLs

International: 50 - Canada - WHMIS Classification of substance, 54 - Mexico - Drinking water ecological criteria, 55 - Mexico - Wastewater discharges, 56 - US -TSCA Section (12)(b) - export notification

State Lists: 60 - CA - Proposition 65, 61 - FL - Substances, 62 - MI - Critical materials, 63 - MA - RTK, 64 - MA - Extraordinarily hazardous substances, 65 - MN - Hazardous substances, 66 - PA - RTK, 67 - NJ - RTK, 68 - NJ - Environmental hazardous substances, 69 - NJ - Special hazardous substances

Inventories: 80 - Canada - Domestic substances , 81 - European - EINECS, 82 - Japan - ENCS, 83 - Korea

- Existing and evaluated chemical substances, 84 - US - TSCA , 85 - China Inventory

Regulatory Search Results:

HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES: 80, 81, 83, 84, 85 HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATE: 63, 64, 80, 81, 83, 84, 85 SOLVENT-DEWAXED HEAVY PARAFFINIC DISTILLATES: 80, 81, 83, 84, 85 ZINC ALKYL DITHIOPHOSPHATE: 80, 81, 83, 84, 85

U.S. TSCA Inventory: All components of this material are on the US TSCA Inventory.

SARA Section 313: Consumer products are not regulated under SARA, Title III, Section 313.

IARC: No information available

SARA 311 / 312 Categories

Acute: --**Chronic:** --**Fire:** --**Pressure:** --**Reactive:** --**Not Regulated:** X

Canadian WHMIS Classification

Not a controlled substance under WHMIS

European Union Classification Hazard Symbols:

No information available

Risk Phrases: No information available

Safety Phrases: No information available

Other: No information available

16. OTHER INFORMATION**Health and Environmental Label Language**

Back Label (updated 2-2003):

CAUTION: May cause skin and eye irritation. PRECAUTIONARY MEASURES: Avoid prolonged or repeated contact with eyes, skin or clothing. Wash skin with soap and water after handling. KEEP OUT OF REACH OF CHILDREN.

MSDS Revisions Previous Version Date: -----

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