

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME	API SL/CF 20W-50 CNG OIL - PCMO
CHEMICAL NAME	ENGINE OIL
MANUFACTURER	Amara Raja Energy and Mobility Limited Renigunta-Cuddapah Rd, Karakambadi-517520, Tirupati, Andhra Pradesh India. Contact : 1800 425 5353 Email: amaronlubes@amararaja.com

2. Composition and Ingredients

Components	CAS No.	Range in %
Solvent Dewaxed Heavy paraffinic Distillate	PROPERITORY	>82
Additives which may include detergent –inhibitor, Pour point depressants ,and/or antifoam agent: contains a maximum 10%(in the additive package)solvent dewaxed light paraffinic distillate base oil as a carrier fluid (CAS 64742-56-9)	PROPERITORY	0-18

3. Hazards Identification

Main hazards	Not a dangerous preparation according to 1999/45/EC
Adverse human health effects	None under normal conditions
Environmental hazards	No specific risk for the environment
Eyes	Expected to cause no more than minor eye irritation
Oral	Ingestion of this product and subsequent vomiting can result in aspiration into the lungs, causing chemical pneumonia and lung damage
Inhalation	Breathing the vapour or mist at concentrations in air that exceed the ACGIH TLV can cause respiratory irritation or discomfort
Skin	Expected to cause no more than minor skin irritation. Prolonged or frequently repeated contact may cause more severe irritation or may cause the skin to become cracked or dry from the defatting action of this material
Long Term Toxic Effects	The base oil component(s) are not expected to be carcinogenic.

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4. First Aid Measures

Eyes	Flush eyes immediately with fresh water for several minutes while holding the eyelids open. If irritation persists, see a doctor
Skin	Wash skin thoroughly with soap and water. If skin irritation persists or a rash develops as a result of excessive contact, see a doctor. Launder contaminated clothing
Ingestion	Do not induce vomiting. Aspiration of the material can cause serious lung injury such as chemical pneumonia. Call a doctor immediately. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person.
Inhalation	If respiratory irritation or any signs or symptoms as described in this MSDS occur, mover the person to fresh air. If any of these effects continue, see a doctor
Advice to Doctor	This product may present an aspiration hazard. See related comments in this MSDS. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours

5. Fire Fighting Measures

Suitable extinguishers	Water fog. Carbon dioxide .Dry chemical. Foam
Extinguishers not to be used	Do not use a heavy water stream
Surrounding fires	Use water spray or fog for cooling exposed containers
Special exposure hazards	None under normal conditions
Protection against fire	None under normal conditions. See also hazardous reactions
Special procedures	None identified

6. Accidental Release Measures

Personal Precautions	Keep public away from danger area. Wear recommended personal protective equipment. Equip cleanup crew with proper protection
Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
After spillage and/or leakage	Sweep or shovel spills into appropriate container for disposal. Cover spills area with oil adsorbent. Spill area may be slippery.
After spillage and/or leakage-on soil	May require excavation of contaminated soil

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7. Handling and Storage

General	No naked lights. No smoking. Direct sunlight and heat sources to be avoided. Keep away from sources of ignition.
Precautions in handling and storage	Handle in accordance with good industrial hygiene and safety procedures.
Storage	Keep container closed when not in use. Keep only in the original container in a cool, well-ventilated place. Keep at temperature not exceeding 45°C.
Handling	Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

8. Exposure Control/Personal Protection

Respiratory Protection	No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation
Hand Protection	Use neoprene or rubber gloves
Eyes	Safety glasses
Skin	No special clothing/skin protection equipment is recommended under normal conditions of use. In case of possible repeated skin contact wear protective clothing
Industrial Hygiene	Provide local exhaust or general room ventilation to minimize dust and/or vapor concentrations. When using, do not eat, drink or smoke. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure
Occupational Exposure Limits	None established

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9. Physical and Chemical Properties

Note: The following data may represent a range of approximate or typical values for products in the same family. Precise technical information is provided in Product Bulletins and can be obtained from your Marketing Representative.

Physical state	Amber colour Liquid
Boiling Point	Not determined
Odour	Mild
Pour Point, °C	(-)21 Max.
Viscosity @100°C, cSt	16.5 to 18.0
Flash Point, °C, Min.	200
Density(kg/l at 15 °C)	0.881 Typical

10. Stability and Reactivity

Physico-chemical stability	Stable
Conditions to avoid	Open flame. Direct Sunlight. Overheating.
Material to Avoid	Oxidizing
Hazardous decomposition Products	Carbon dioxide. Carbon Monoxide, Hydrogen Sulfide
Hazardous reactions	None Under normal conditions
Hazardous Polymerization	Will not occur

11. Toxicological Information

Acute toxicity	Not expected to be toxic
Inhalation	Practically non-toxic at normal conditions of usage. May cause respiratory irritation following prolonged or repeated inhalation of excessive oil mist and vapors.
Dermal	Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
Ingestion	Practically non-toxic if ingested in small doses. Larger quantities may cause nausea and diarrhoea
Sensitization	No sensitization effects known
Carcinogenicity	No data available.
Mutagenicity	Not expected to be mutagenic hazard

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12. Ecological Information

Environmental Effects	Adverse effects to the environment are not expected from this product
Bio accumulative Potential	Not determined
Mobility soil	Ground water contamination may be caused through spillages

13. Disposal Considerations

Waste Disposal	Dispose in safe manner in accordance with local/national regulations
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14. Transport Information

Transportation of Dangerous	Not Applicable
UN Number	Not Applicable
Dangerous Goods Class	Not applicable
Hazchem Code	Not applicable
Additional Information	None Determined

15. Regulatory Information

Symbols(S)	Not classified
R phrases(s)	Not Classified
S Phrases (s)	Not classified

16. Other Information —

Product Information – For specific or detailed technical data for this product ,please contact your local sales representative

Note: The above data is based on the information presently available to us. The data provided is without any warranty, express or implied, regarding its reactions and accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assure liability for loss, injury, damage or expense resulting from improper use of this product.