

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME	API CF4 20W-40 DEO – MULTIPURPOSE
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 %
Highly Refined Mineral base Oil	Proprietary	85to 95 %
Performance Additive	Not available	5 to 15 %

3. Health Information

Main hazards	Not a dangerous preparation according to 1999/45/EC
Most important adverse physicochemical effects	No adverse hazards
Most important adverse human health effects	None under normal conditions
Most important adverse environmental effects	Harmful to aquatic organisms ,may cause long-term adverse effects in the aquatic environment
Symptoms relating to uses and possible misuses of the preparation	None Under Normal condition
Other hazards	Avoid prolonged contact with used oil. Overexposure to oil mist cause respiratory irritations .oil mist deposited on surfaces may cause slip hazard

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. Seek medical attention immediately.
Inhalation	Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.
Advice to Doctor	Treat Symptomatically
General information	If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice

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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
Combustion products / resulting gases	Under fire conditions ,hazardous fumes will be present
Special protective equipment for fire fighters	Fire –fighters should use standard protective equipment and in enclosed spaces, self –contained breathing apparatus (SCBA)

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.
Cleaning methods	Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spills and put it into appropriated container. Use suitable disposal containers. Recover the cleaning water for disposal. Spill area may be Slippery

7. Handling and Storage

General	No naked lights. No smoking. 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.
Specific Use(s)	Engine Oil

8. Exposure Control/Personal Protection

Exposure limit values	According to TWA (TLV) ACGIH : 3 mg/m ³ for oil mist
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.

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Specific hygiene measures	Provide local exhaust or general room ventilation to minimize dust and/or vapour 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
Environmental exposure controls	See sections 6,7,12 , 13

9. Physical and Chemical Properties

Physical State	Liquid
Colour	RED
Odour	Mild
Pour Point , °C,Max	(-)21
K.V.@100°C,cSt	13.5 – 16.0
Flash Point , °C,COC,Min.	200

10. Stability and Reactivity

Stability of the preparation	Stable under normal condition
Hazardous reactions	None under normal conditions
Conditions to Avoid	Open flame.Sparks.Overheating
Materials to avoid	Oxidizing agents.Strong acids.bases.
Hazardous decomposition products	None Under normal conditions

11. Toxicological Information

Routes of exposure Acute Effects	Inhalation ,skin contact ,eye contact
Inhalation	Practically non toxic at normal conditions of usage. May cause respiratory irritation following prolonged or repeated inhalation of excessive oil mist and vapours.
Ingestion	Practically non toxic if ingested in small doses. Larger quantities may cause nausea and diarrhea.
Skin contact	Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
Eye Contact	May cause mild,short-lasting discomfort to eyes.Based on test data for structurally similar materials.
Sensitization	No sensitization effects known
Repeated dose toxicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Mutagenicity	Not expected to be mutagenic hazard

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12. Ecological Information

Environmental Effects	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Ecotoxicity	No expected to be toxic
Mobility soil	No data available
Persistence and degradability	Base component –Expected to be inherently biodegradable
Bioaccumulative Potential	Not determined
Other adverse effects	None identified

13. Disposal Considerations

Waste Disposal	Dispose in safe manner in accordance with local/national regulations
Waste-disposal procedures	See Directive 2001/118/EC
Contaminated Packaging	Do not attempt to refill or clean containers without proper instructions. Do not cut, pressurize, weld, braze, solder, drill, grind or expose such containers to the heat, flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death

14. Transport Information

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

15. Regulatory Information

Symbol (s)	None
R-Phrases (s)	R 52/53 Harmful to aquatic organisms ,may cause long term adverse effects in the aquatic environment
S Phrase (s)	S35: This material and its container must be disposed of in a safe way , S56: Dispose of this material and its container to hazardous or Special waste collection point S59:Refer to manufacturer /Supplier for information on recovery /recycling

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16. Other Information — No specific notes on this product.

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.