SAFETY DATA SHEET

15W40 SEMI SYNTHETIC ENGINE OIL

1. Identification of the substance and of the supplier

1.1 Product identifiers
Product name : CI-4/SL SAE 15W40

1.2 Relevant identified uses of the substance or mixture
Identified uses : Lubricating oil

2. Hazards identification

2.1 Label elements

Pictogram No

Signal word No

Hazard statement(s) No

Precautionary statement(s)
Avoid breathing vapours
Wash hands thoroughly after handling
Use only outdoors or in a well-ventilated area
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing
If in eyes: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes,
If on skin: Wash with plenty of soap and water
Store in a well-ventilated place. Keep container Tightly closed

3. First aid measures

3.1 Description of first aid measures

Inhalation	Remove person to an area with fresh air. If not breathing, give artificial respiration. Get medical attention.
Skin contact	Wash contact areas with soap and water. Launder contaminated clothing before reuse.
Eye contact	Flush thoroughly with water for at least 15 minutes. If irritation occurs, get medical attention.
Ingestion	Do NOT induce vomiting. Get immediate medical attention

3.2 Most important symptoms and effects, both acute and delayed :
Prolong inhalation and contact with skin and eyes may cause irritation

3.3 Indication of any immediate medical attention and special treatment needed : Treat symptomatically

4. Firefighting measures

4.1 Extinguishing medium
Suitable extinguishing medium : Water spray, foam, dry chemical or carbon dioxide (CO_2).
Inappropriate extinguishing medium : Straight streams of water

4.2 Special hazards arising from the substance or mixture
Non-flammable mixtures. Elevated temperatures can lead to the formation of irritating vapours.

4.3 Special protective equipment and precautions for fire-fighters
Fire fighters should use self-contained breathing apparatus (SCBA) to fight fires. Use water spray to cool fire exposed surfaces and to protect personnel.

6. Accidental Release Measure

6.1 Personal precautions, protective equipment and emergency procedures
Evacuate area. Avoid contact with spilled material. Half-face or full-face respirator with filter for organic vapour.

6.2 Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up
Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material (e.g. sand).
And place in waste disposal container.

6. Handling and Storage

6.1 Precautions for safe handling
Avoid breathing vapour or mist
Avoid contact with skin and eyes
Wear suitable gloves, coveralls, apron and boots
Use only with adequate ventilation
Use non-sparking tools
Prevent spills and leaks to avoid slipping hazards

6.2 Conditions for safe storage, including any incompatibilities
Keep containers closed when not in use and check regularly for leaks. Keep in the original container protected from direct sunlight in a dry ,cool and well ventilated area. Store away from incompatible materials. Avoid excessive long-term storage temperatures to prolong shelf life. Maximum storage temperature: 60°C

7. Exposure Controls/Personal Protection

7.1 Control parameters
Lubricating Oils (Petroleum), C20-50, hydro-treated neutral oil based: ACGIH (TLV) 5 mg/m3

7.2 Appropriate engineering controls
Ventilation may be used to control or reduce airborne concentrations.

7.3 Personal protective equipment

Eye/face protection	**:** Goggles with face shields are recommended
Skin and body protection	**:** Wear gloves made from nitrile rubber., Chemical / oil resistant clothing
Respiratory protection	**:** Wear organic vapour respirator

7.4 Work / Hygienic Practices:
When using do not eat, drink or smoke. Wash hands prior to eating, drinking, smoking or using the toilet.
Wash contaminated clothing and other protective equipment before reusing.

8. Physical and Chemical Properties

a)	Appearance	Bright&Clear
b)	Odour	Characteristic
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	228°C
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	Insoluble
o)	Partition coefficient: noctanol/water log Pow	No data available
p)	Auto ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	111.4 mm^2/s @40°C

9. Stability and Reactivity

9.1 Reactivity — No data available

9.2 Chemical stability — Stable under recommended storage conditions

9.3 Possibility of hazardous reactions — No polymerization

9.4 Conditions to avoid — Excessive heat and sources of ignition

9.5 Incompatible materials — No data available

9.6 Hazardous decomposition products — Does not decompose at ambient temperatures. If high temperature, material will decompose to Aldehydes, sulphur oxides and oxide of carbon

10. Toxicological Information

10.1 Information on the likely routes of exposure

Inhalation	: Prolonged breathing of vapors can cause headaches and respiratory irritation
Skin contact	: Slight irritation
Eye contact	: Slight irritation
Ingestion	: Can cause stomachache and vomiting

10.2 Symptoms related to the physical, chemical and toxicological characteristics;
Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

10.3 Delayed and immediate effects and also chronic effects from short and long term exposure;
Immediate effects
May cause respiratory irritation, headache, nausea. Mildly irritating to skin and eyes.

Chronic effects :
Prolonged and repeated contact with skin can cause dehydrating and drying of the skin resulting in skin irritation and dermatitis.

10.4 Numerical measures of toxicity

Components	Acute toxicity
Lubricating Oils (Petroleum), hydrotreated neutral oil based	LD50 (oral rat) : > 5000 mg/kg LD50 (Dermal rabbit) : > 5000 mg/kg LC50 (Inhalation rat) : 4 h > 5 mg/l

Classification of Health Hazards

Acute oral toxicity estimate	Not classified
Acute dermal toxicity estimate	Not classified
Acute inhalation toxicity estimate	Not classified
Skin corrosion / irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

11. Ecological Information

11.1 Ecotoxicity No data available

11.2 Persistence and degradability No data available

11.3 Bio accumulative potential No data available

11.4 Mobility in soil Moves under natural forces to the groundwater

11.5 Other adverse effects Long-term effect to the aquatic environment

12. Disposal Considerations

12.1 Waste treatment methods
Dispose as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

12.2 Contaminated packaging
Do not attempt to refill or clean containers since residue is difficult to remove. All containers should be disposed of in accordance with government regulations.

13. Regulatory Information

13.1 Safety, health and environmental regulations/legislation specific for the substance or mixture complies with the following national/regional chemical inventory requirements:
TSCA, EINECS/ELINCS, AICS,
ENCS, ELC, IECSC, PICCS, DSL/NDSL and NZIOC

14. Other Information

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