



5W40 FULLY SYNTHETIC ENGINE OIL

1. Identification of the substance and of the supplier

1.1 Product identifiers

Product name : SN/CF SAE 5W40 FULLY SYNTHETIC

1.2 Relevant identified uses of the substance or mixture

Identified uses : Lubricating oil

2. Hazards identification

2.1 Classification of the substance or mixture

Skin corrosion / Irritation Category 3

Serious eye damage / Eye irritation Category 2B

2.2 Label elements

Pictogram No

Signal word Warning

Hazard statement(s) H316:Causes mild skin irritation

H320:Caused eye irritation

Precautionary statement(s)

Prevention P261:Avoid breathing vapours

P264:Wash thoroughly after handling

P271:Use only outdoors or in a well-ventilated area

Response P304+P340:If inhaled: Remove victim to fresh air and keep at rest in a

position comfortable for breathing

P305+P351+P338:If in eye: Rinse cautiously with water for several minutes,

Remove contact lenses, if present and easy to do

P332+P313:If on skin, wash with plenty of soap and water Store in a well-ventilated place. Keep container rightly closed

3. Composition/Information on ingredients

Complex Mixture

Storage

Components	CAS No.	Concentration %	Symbol	R,S-Phases
Distillates (petroleum), hydrotreated	64742-54-7	70 – 80%	T+	R45
heavy paraffinic		ASTM D445		S53,S45
Additive	Proprietary	10 – 20%	-	-



4. First aid measures

4.1 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

4.2 Most important symptoms and effects, both acute and delayed :

Headache, dizziness, nausea, respiratory irritation, mildly irritating to skin.

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

5. Firefighting measures

5.1 Extinguishing medium

Suitable extinguishing medium: Water spray, foam, dry chemical or carbon dioxide (CO₂). Inappropriate extinguishing medium: Straight streams of water

5.2 Special hazards arising from the substance or mixture

Non-flammable mixtures. Elevated temperatures can lead to the formation of irritating vapours.

5.3 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.

7. Handling and Storage

7.1 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

7.2 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



8. Exposure Controls/Personal Protection

8.1 Control parameters

Mineral Oil 64742-54-7 ACGIH TLV-TWA 5 mg/m3

ACGIH TLV-STEL10 mg/m3 OSHA PEL-TWA 5 mg/m3

8.2 Appropriate engineering controls

Ventilation may be used to control or reduce airborne concentrations.

8.3 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

8.4 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.

9. Physical and Chemical Properties

a) Appearance Bright&Clear Characteristic Odour b) Odour Threshold No data available c) d) pH No data available Melting point/freezing point e) No data available f) Initial boiling point and boiling range No data available 250°C g) Flash point No data available h) Evaporation rate Flammability (solid, gas) No data available i) Upper/lower flammability or explosive limits No data available j) k) Vapour pressure No data available Vapour density No data available No data available m) Relative density n) Water solubility Insoluble o) Partition coefficient: noctanol/water log Pow No data available p) Auto ignition temperature No data available

10. Stability and Reactivity

q) Decomposition temperature

Viscosity

10.1 Reactivity No data available

10.2 Chemical stability Stable under recommended storage conditions

10.3 Possibility of hazardous reactions No polymerization

10.4 Conditions to avoid Excessive heat and sources of ignition

10.5 Incompatible materialsNo data available

10.6 Hazardous decomposition productsDoes not decompose at ambient temperatures.

If high temperature, material will decompose to Aldehydes,

sulphur oxides and oxide of carbon

No data available

87.58 mm²/s @40°C



11. Toxicological Information

11.1 Information on the likely routes of exposure

Inhalation : Prolonged breathing of vapors can cause headaches, dizziness, nausea, respiratory

irritation or chemical pneumonitis

Skin contact : Slight irritation Eye contact : Slight irritation

Ingestion : Can cause stomachache and vomiting

11.2 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.

11.3 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.

11.4 Numerical measures of toxicity

Components Acute toxicity

Distillates (petroleum), hydrotreated heavy paraffinic LD50 (oral rat) :> 5000 mg/kg

LD50 (Dermal rabbit) :> 2000 mg/kg LC50 (Inhalation rat) :>2.2 mg/l

Classification of Health Hazards

Acute oral toxicity estimate

Acute dermal toxicity estimate

Acute inhalation toxicity estimate

Skin corrosion / irritation

Serious eye damage/eye irritation

Germ cell mutagenicity

Not classified

Not classified

Category 3

Category 2B

Non sensitization

Not classified

Carcinogenicity Highly refined mineral oils are not classified as carcinogenic by the

International Agency for Research on Cancer (IARC)

Reproductive toxicity
Specific target organ toxicity - single exposure
Specific target organ toxicity - repeated exposure
Aspiration hazard
No data available
No data available
No data available

12. Ecological Information

12.1 Ecotoxicity

Components Result

Distillates (petroleum), hydrotreated LC50 Fish (Salmo gairdneri) > 1000 mg/l (96 h) heavy paraffinic EC50 Crustacea (Daphnia magna) > 1000 mg/l (48 h)

ErC50 Algae (Scenedesmus subspiacatus) > 1000 mg/l (96 h) NOEC Fish (Pimephales promelas) > 5000 mg/l (7 days) NOEC Crustacea (Ceriodaphnia sp.) 552 mg/l (7 days)

Acute hazards to the aquatic environment estimate: Not classified Long-term hazards to the aquatic environment estimate: Not classified



12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential No data available

12.4 Mobility in soilMoves under natural forces to the groundwater

12.5 Other adverse effectsLong-term effect to the aquatic environment

13. Disposal Considerations

13.1 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.

13.2 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.

14. Transport Information

14.1 UN number No data available

14.2 UN proper shipping nameNo data available

14.3 Transport hazard class(es) Not regulated

14.4 Packaging groupNo data available

14.5 Environmental hazardsNo data available

14.6 Transport in bulk No data available

14.7 Special precautions for userNo data available

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

GLOBAL INVENTORIES

component	USA	EU	AUS	JAP	KOR	CHN	PHLP	CAN	NZ
	(TSCA)	(EINECS)	(AICS)	(ENCS)	(ELCI)	(IECSC)	(PICCS)	(DSL/NDSL)	(NZIOC)
Distillates (petroleum), hydrotreated heavy paraffinic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

15.2 Chemical Safety AssessmentNo data available



16. Other Information

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Symbol(s) and indication(s) of danger:

T+ Very toxic

Risk Phrases

R45 May cause cancer

Safety Phrases

S53 Ávoid exposure – obtain special instructions before use S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

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