

MATERIAL SAFETY DATA SHEET

1. Chemical Product

Product Name SPEC OIL SAE 30 SF/CF4

Product Use Automotive Lubricant

2. Composition / Information On Ingredients

Chemical Name	Cas- no.	Weight %	Symbol Codes	R-Phrase Numbers
Base oils		>90.00	None	Not Applicable
Additives		<10.00	None	Not Applicable

3. Hazards Identification

Emergency response data: Amber Liquid. DOT ERG No.- Not applicable

Potential health effects

Note Under normal conditions of intended use, this product does not pose a

risk to health. Excessive exposure may result in eye, skin and respiratory

irritation.

See Section 11 for further health effects / toxicological data



4. First Aid Measures

Inhalation Not expected to be a problem. However, if respiratory irritation occurs due to

excessive vapour or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-

mouth resuscitation.

Skin contact Remove contaminated clothing. Dry wipe and cleanse with hand cleaner, soap and

water. Launder contaminated clothing before re-use. (See Section 16 - Injection

Injury)

Eye Contact Flush thoroughly with water. If irritation occurs call a doctor.

Ingestion Not expected to be a problem. However, if discomfort occurs seek medical

attention. Do not induce vomiting.

5. Fire-Fighting Measures

Extinguishing media Carbon dioxide, foam, dry chemicals and water fog.

Special fire fighting procedure Water or foam may cause frothing. Use water to keep fire exposed containers

cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, municipal sewers, or drinking

water supply.

Special protective equipment

for fire fighters

For fires in closed areas, fire fighters must use Self-Contained Breathing

Apparatus.

Unusual fire/explosion hazards

None

Products of decomposition

Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other

decomposition products, in the case of incomplete combustion.

Flash Point >240 ° C (ASTM D-92)

Upper Explosion Limits 7.0 % (V)
Lower Explosion Limits 0.9 % (V)

NFPA Hazard ID Health: 0; Flammability: 1; Reactivity: 0

6. Accidental Release Measures

Procedure if material is released or spilled

Report spills / release as required to appropriate authorities.

Methods for cleaning up

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on the ground water. Recover by pumping using explosion-proof equipment or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.

WATER SPILL: Notify port and relevant authorities. Confine with booms in skimming equipment is available to recover the spill for a later recycling or disposal. Warn other ships in the vicinity. If allowed by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

Personal precautions

See Section 8

Environmental precautions

Prevent spill from entering municipal sewers, water sources or low lying areas. Advise the relevant authorities if contaminations have occurred.

7. Handling And Storage

Safe handling advice

No special precautions are necessary beyond normal good hygiene practices.

Storage information

Keep containers closed when not in use. Do not store in open or unlabelled containers. Do not store near sources, sparks, flames, strong oxidizing agents and combustible materials.

Storage and handling procedures

Prevent small spills and leakages to avoid slip hazard.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits (OELs)

Components	Cas- no.	Source	TWA	Value	Notations
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LTEL Long Term Exposures Limits- Time Weight Average (TWA) over 8 hours.

STEL Short Term Exposure Limits- Time Weight Average (TWA) over 15 minutes.

Note Limits Show for guidance only. Follow applicable regulations.

Personal Protection Equipment (PPE)





below exposure limits.

the recommended exposure limits.

Eye protection If splash with liquid is possible, chemical type goggles should be worn.

Skin and body protection No special equipment required. However, if frequent splashing or liquid.

9. Physical And Chemical Properties

Appearance	Liquid
Colour	Amber
Odour	Mild
Solubility	Negligible
Boiling point / range	316 ∘C
Flash Point	>240 °C (ASTM D92)
Upper Explosion Limit	7.0 % (V)
(UEL)	
Lower Explosion Limit	0.9 % (V)
(LEL)	
Vapour Pressure	<0.1 hPa
Density	0.892 g/cm3 @ 20 °C (ASTM D4052)
Pour Point	-18 ∘C
Viscosity, kinematic	11mm2/s @ 100 ∘C (ASTM D445)
	92mm2/s @ 40 °C (ASTM D445)

10. Stability And Reactivity

Stability Stable

Condition to avoid Extreme heat and high energy sources of ignition, such as sparks and static

electricity.

Materials to avoid Strong oxidizers

Hazardous decomposition Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other

products decomposition products, in the case of incomplete combustion.



11. Toxicological Information

Acute oral toxicity

(Rats): Practically non-toxic (LD50: Greater than 2000 mg/kg). Based on testing of similar products and \prime or components.

Acute inhalation toxicity

(Rats): Practically non-toxic (LD50: Greater than 5 mg/l). Based on testing of similar products and / or components.

Acute dermal toxicity

(Rabbits): Practically non-toxic (LC50: greater than 2000mg/l). Based on testing of similar products and / or components.

Skin irritation

(Rabbits): Practically non-irritating. (Primary Irritation Index LC50: greater than 0.5 but less than 3). Based on testing of similar products and / or the components.

Eye irritation

(Rabbits): Practically non-irritating. (Draize score: greater than 6 but 15 or less). Based on testing of similar products and / or the components.

Other acute toxicity data

Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects. Over exposure to oil mist may result in oil droplet deposition and / or granuloma formation.

Sensitization

Not expected to be sensitizing based on tests of this product, components, or similar products.

Repeated dose toxicity

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (haematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.). Repeated and / or prolonged exposure may cause irritation to the skin, eyes or respiratory tract.

Carcinogenicity

Mineral base oil is severely solvent refined and / or severely hydro treated. Chronic mouse skin painting studies of severely treated oils showed evidence of carcinogenic effects. Synthetic base oils have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures. Used petrol engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.



12. Ecological Information

Elimination information (persistence and durability)

Biodegradability This product is expected to be inherently biodegradable.

Physic-chemical removability Absorption to sediment and soil will be the predominant behaviour.

Bioaccumulation Minimal owing to low water solubility

Eco toxicity effects

Toxicity to aquatic organisms | This substance is practically non-toxic to aquatic organisms (LL50>1000 mg/l).

Further information on ecology

Remarks In the absence of specific environmental data for this product, this assessment is

based on information for representative substances.

13. Disposal Considerations

Waste disposal Product is suitable for burning in an enclosed, controlled burner for fuel value or

disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conversation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of

product characteristics at time of disposal.

Contaminated packaging | Empty containers retain residue (liquid and / or vapour) and can be dangerous. DO

NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe

manner and in accordance with governmental regulations.

Other regulations The unused product, in our opinion, is not specifically listed by the EPA as a

hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure

(TCLP). However, used product may be regulated.

Flash Point >240 °C (ASTM D-92)

14. Transport Information

Note This product is not regulated by the following: U.S DOT (CFR), ADR, IATA, and

IMDG.

Static Accumulator (50 picosiemens or less)

Yes

15. Regulatory Information

US OSHA Hazard When used for its intended purposes, this product is not classified as hazardous in

Communication Standard accordance with OSHA 29 CFR 1910.1200.

Governmental Inventory All components comply with TSCA, EINECS, AICS, METI, DSL, KECI, ENCS, PICCS and

IECSC.

EU labelling Product is not dangerous as defined by the European Union Dangerous Substances

/ Preparations Directives. EU labelling not required.

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA

U.S Superfund Amendments and Reauthorization Act SARA

Title iii

SARA (311/312) Reportable

Hazard Categories

None

The following product ingredient are cited on the list below

Chemical name	Cas- no.	Concentration (%)	List Citations
Base oils		>90.00	Not listed
Additives		<10.00	Not listed

Regulatory List Searched

1=ACGIH ALL	6=IARC 1	11=TSCA 4	17=CA P65	22=MI 293
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	18=CA RTK	23=MN RTK
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	19= FL RTK	24=NJ RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	20=IL RTK	25=PA RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	21=LA RTK	26=RI RTK

Code Key: CARS = Carcinogen; SUS = Suspected Carcinogen



16. Other Information

Note: Spec Oil products do not contain PCBs.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for any other applications. In any case, the following advice should be considered:

FIRST AID Wash skin with soap and water. Flush eyes with water. If overcome by fumes or

vapour, remove to fresh air. If ingested do not induce vomiting. If any symptoms persist seek medical attention. Read and understand the MSDS before using this

product.

INJECTION INJURY WARNING If product is injected into or under the skin, or into any part of the body,

regardless of the appearance of the wound or size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent

of injury.

SAFETY Under normal conditions of intended use, this product does not pose a risk to

health. Excessive exposure may result in eye, skin or irritation. Always observe

good hygiene measures.

Disclaimer

Information given her in is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind of nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

