

Material Safety Data Sheet

Vecto 10W30 Semi-Synthetic Engine Oil CJ-4/SL

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Section 1: Identification

1.1. Identification

Product Form	: Group 2 and Group 3 Base Oil Mixture
Product Name	: Vecto 10W30 Semi-Synthetic Engine Oil CJ-4/SL

1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Semi-synthetic automotive engine lubricant
Recommended use	: For petrol and diesel engines only
Restrictions on use	: Do not use in any other application

1.3. Supplier

Stacor (Pty) LTD
57 Nguni Way (D819 Road),
Brackenhill Industrial Area, Waterfall, Durban
South Africa
T- +27 0 31 766 0060
lab@stacor.co.za

1.4. Emergency Telephone Number

Spill Tech
T- 086 100 0366

Section 2: Hazard(s) Identification

2.1. Classification of the substance or mixture

GHS Classification of Substance in accordance to Regulation (EC) No. 1272/2008 (CLP/GHS):
Not a hazardous substance or mixture.

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. GHS Label elements, including precautionary statements

GHS Label Elements



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Potential Health Effects:

H315 Causes Skin Irritation (on prolonged contact)

H319 Causes SERIOUS Eye Irritation

H335 May cause Respiratory Irritation

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification

: This material should not be used for any other purpose than the intended use in Section 1 without expert advice.

: The mixture has a low order of toxicity associated with it. Excessive exposure may result in mild irritation to the skin or respiratory system as well as possible irritation to the eye. People with pre-existing skin conditions, such as eczema or dermatitis, should take precautions so as not to exacerbate the condition. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material.

2.4. Unknown acute toxicity (GHS US)

Not Applicable

Section 3: Composition/ Information on Ingredients

3.1. Substances:

Mixture of severely Hydro-treated and hydro-cracked and/or solvent-refined base oil

Common Name/Synonyms: Distillate, Petroleum Hydro-treated heavy paraffinic

3.2. Mixtures

Name	Product Identifier	%	GHS US Classification
Distillate, Petroleum Hydro-treated heavy paraffinic	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1	90-99.9	Not classified
Organomolybdenum Amide Complex mixture of additives	Proprietary	0.1-10	Xi; R36/38. N;R51/53

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Section 4: First Aid Measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove the exposed individual into fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed. Maintain an open airway and loosed tight clothing.
First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes)/shower. Soap may be used. Remove clothing before washing.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Take affected individual to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention.

Never give anything by mouth to an unconscious individual. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effect (acute and delayed)

Symptoms/effects after inhalation	: ON HEATING: Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
Symptoms/effects after skin contact	: N/A
Symptoms/effects after eye contact	: Redness of the eye tissue. Lacrimation
Symptoms/effects after ingestion	: Nausea. Vomiting. Diarrhea. AFTER ABSORPTION OF HIGH QUANTITIES: Headache. Dehydration.
Chronic symptoms	: N/A

4.3. Immediate medical attention and special treatment, if necessary

Seek medical assistance. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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Section 5: Fire-fighting Measures

5.1. Suitable (and suitable) extinguishing media

Suitable extinguishing media	: Dry chemical, Carbon Dioxide or Foam
Unsuitable extinguishing media	: Avoid using full water jet directed at residual material that may be burning. : Water may cause splattering on hot residue. : Product will float on water.

5.2. Specific hazards arising from the chemical

Fire Hazard	: DIRECT FIRE HAZARD: Combustible, keep away from open flame, no smoking. Large surface areas exposed to air (e.g. product soaked rags, paper or absorbed spillage) may be easily ignited and should be cleared up at once : INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.
Explosion Hazard	: No information to indicate that the product is an explosion hazard. Extinguish all sources of flame or spark. Closed containers may explode when exposed to extreme heat. : Risk of explosion due to increased pressure if product containers or tanks become heated due to fire. Promptly isolate the scene if there is any incidence of fire.
Reactivity in case of fire	: Protection against nuisance dust must be used when the airborne concentration exceeds 10mg/m ³ . Oxides of carbon. Oxides of nitrogen. Fire may also create other unidentified organic gases some of which may be toxic.

5.3. Special Protective equipment and precautions for fire-fighters

Firefighting Instructions	: Exercise caution when fighting any chemical fire
Protection during firefighting	: Firefighters should wear full protective gear. Use self-contained breathing equipment if in confined place. Do not enter fire area without proper protective equipment, including protective equipment, including respiratory.
Other information	: Refer to Section 9 for flammability properties

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Section 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
General measures	: Try to stop release. Dike and contain spill
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves, safety glasses, protective clothing and face-shield.
Emergency procedures	: Evacuate unnecessary personnel. Remove all ignition sources.
6.1.2. For emergency responders	
Protective equipment	: Equip clean-up crew with proper protection. Use appropriate PPE
Emergency procedures	: Ventilate area
6.2. Environmental precautions	
Shut off leaks if possible. Prevent run-off entry into sewers, water courses, soil, basements or confined areas. Ensure run-off is dealt with appropriately, according to approved environmental management plans. All material should be stored in drums on a hard surface to avoid contamination with soil.	
6.3. Methods and Material for containment and cleaning up	
Method for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials on a hard concreted surface until correctly disposed of. Secondary Disaster Prevention : Place floating booms on affected waterways downstream of spill. Create a temporary containment area using earth or other available material.
6.4. Reference to other sections	
See Section 1 for emergency contact information	
See Section 8, exposure controls and personal protection	
See Section 13 for additional waste treatment information	
Section 7: Handling and Storage	

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7.1. Precautions for safe handling	
Precautions for safe handling	<p>: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.</p> <p>: Ensure electrical continuity of all relevant equipment by proper bonding as electrostatic charges can potentially be generated during pumping and tank-filling operations. Recycle all waste where possible.</p>
Hygiene measures	<p>: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.</p>
7.2. Conditions for safe storage, including and incompatibilities	
Technical measures	<p>: Comply with applicable regulations</p>
Storage conditions	<p>: Keep in a well ventilated place away from: Incompatible materials. Keep container closed when not in use. Keep separate from oxidants. Avoid extreme heat and cold. Avoid direct fire. Store in clean, dry vessels.</p> <p>In bulk, store at ambient temperature: Temperature higher than necessary degrades quality at rate dependent on time and temperature of exposure. Exposure to ultraviolet light, especially sunlight, must be minimized to prevent quality loss.</p>
Incompatible products	<p>: KEEP SUBSTANCE AWAY FROM: heat sources, oxidizing agents, (strong) acids, (strong) bases.</p>
Packaging materials	<p>: Packaging should be closable, dry, clean, correctly labelled, and meet the legal requirements. Secure fragile packaging in solid containers.</p>

Section 8: Exposure control/personal protection

8.1. Control parameters

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Occupational Exposure Controls : n/a

Technical measures : n/a

Occupational Exposure Limits :

Oil Mist, Mineral components

Source	Type	Value	Note
US (ACGIH)	TWA	5 mg/m ³	Inhalable particulate matter, Long Term Exposure Limit, 8 hours
US (ACGIH)	TWA	10mg/m ³	Short Term Exposure Limit, 15 minutes

8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
: A system of local and/or general exhaust s recommended to keep employee exposures above the Exposure Limits.
: Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

8.3. Individual protection measure/Personal protective Equipment

Personal protective equipment	: Gloves and safety glasses
Hand protection	: Oil resistant protective gloves (nitrile rubber gloves)
Eye protection	: Safety eyewear such as splash resistant safety goggles with a secondary protection face shield.
Skin and body	: Wear suitable protective clothing and chemical resistant shoes or boots.
Respiratory protection	: Respiratory protection not required in normal conditions. Mist formation: aerosol mask with filter type P1. On heating: gas mask with filter type A. : Use respirators in accordance with AS 1715 and AS 1716.

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Personal Protective Equipment symbol(s):



Other information : Do not eat, drink or smoke during use.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: viscous liquid
Colour	: Brown
Odour	: Mild Petroleum (Oil-like)
pH	: Neutral
Boiling Point	: > 280°C
Pour Point	: -39°C
Density @ 15°C (ASTM D-445)	: 0.87 kg/l
Flash point (PMCC)	: 220 °C min
Kinematic Viscosity @ 40°C @ 100°C	: 64-78 mm ² /s : 9.75 mm ² /s
Viscosity Index	: 134
Solubility	: not soluble in water : Soluble in organic solvents

9.2. Other information

None available

Section 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions

10.2. Chemical Stability

Stable under normal conditions, starts to decompose at 350°C or higher.

10.3. Possibility of hazardous reactions

None Known

10.4. Conditions to avoid

During storage and handling, avoid excess heat generation, accumulation of electrostatic charges, sparks and flames.

10.5. Incompatible materials

Reacts with strong oxidants

10.6. hazardous decomposition products

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Flammable gases which might also be noxious. From approximately 154°C, before decomposition temperature with air present, there is a risk for auto-ignition.

Section 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity (oral)	: LD50 in rats > 2000 mg/kg : LD50 in rats > 5000 mg/kg
Acute toxicity (dermal)	: LD50 in rats > 2000 mg/kg : LD50 in rabbits > 5000 mg/kg
Acute toxicity (inhalation)	: Not determined. The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use.
Skin corrosion/irritation	: causes mild skin irritation
Serious eye damage/irritation	: May cause mild, short lasting discomfort to eyes
Respiratory or skin sensitization	: not known to be a sensitizer : respiratory information not available
Germ cell mutagenicity	: Non mutagenic
Carcinogenicity	: This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractable by the IP346 test.
Reproductive toxicity	: This product is not expected to be a reproductive hazard according to tests such as OECD Tests 414 and 421, based on the available data and the known hazards of the components. The product contains a 4-dodecyl-phenol component that is rated as Suspected of damaging fertility, however this is present at amounts well below the Concentration cut-off levels.

Section 12: Ecological Information

12.1 Toxicity

Flora and Fauna	Acute fish toxicity : Based on available data the classification criteria are not met. Not considered toxic to fish.
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12.2. Persistence and degradability	
log Pow = 3.9 log Kow: > 7 This figure is typical of mineral oil Not readily biodegradable	
12.3. Mobility in soil	
Other information	: Floats in water Films formed on water may inhibit oxygen transfer and cause damage to aquatic organisms. : Limited mobility in soil, large quantities may penetrate soil and contaminate groundwater.
Bio-accumulation potential	: Not available
Section 13: Disposal considerations	
13.1. Disposal Methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations
Ecology- waste materials	: Avoid release to the environment
Section 14: Transport Information	
Department of Transport (DOFT, DOT and NDOT)	
UN-No.	: not regulated as a hazardous material
UN Proper shipping name	: N/A
Hazard class(es)	: Not hazardous according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR
Packing group	: N/A
Hazard label	N/A
Section 15: Regulatory Information	
15.1. Local Regulations	
Disposal: <i>NEM: Waste Act 2008: GNR 635 National Norms & Standards for Assessment of Waste for Landfill Disposal and GNR 634 Waste Classification and Management Regulations.</i>	
Transport: <i>South African National Road Traffic Act: GNR 273</i>	
Occupational: <i>Occupational Health and Safety Act (1993);</i>	

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Occupational Exposure Limits- Recommended Limits (South Africa, 1995)

15.2. International regulations

Observe prescribed Federal, State and Local measures for dealing with chemicals listed on EINECS (EU), TSCA-CSI (USA), DSL (Canada), AICS (Australia), ENCS (Japan), ECL (Korea).

Section 16: Other Information

According to the Hazardous Substances Amendment Act 53 of 1992

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Full text of H-phrases: see section 16:

H315	Cause mild skin irritation
H319	Causes Serious eye irritation
H335	May cause respiratory irritation

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