



1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Genair SPL S-68
Supplier : Engen Petroleum Limited (Tel: +27 (0) 21 403 4911, a/h: +27 (0) 21 403 4099)
Poisons Information Helpline : 0861 555 777 (South Africa)
Spill Response : 086 100 0366 (South Africa)
Customer Service Centre : 0860 036 436 (Sales and Technical Information)
Engen Website : <http://www.engen.co.za/>

2. HAZARDS IDENTIFICATION

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

GHS Classification:

Health

Skin corrosion/irritation : Not classified.

Environmental

Acute toxicity : Not classified.

Chronic toxicity : Not classified.

Physical

Flammability : Not classified.

Signal Word

: None

GHS Labels/Pictograms:

Hazard Statements

None.

Precautionary Statements

Prevention

Use personal protective equipment as required.

Response

IN CASE OF FIRE: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention. IF SWALLOWED: Get medical attention if you feel unwell. Do NOT induce vomiting. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breath. Call a POISON CENTRE or doctor if you feel unwell. IF ON SKIN (or hair): Immediately remove all contaminated clothing. Gently wash skin with plenty of soap and water. Launder contaminated clothing before re-use. If skin irritation occurs: Get medical attention.

Storage

Store in accordance with local regulations and municipal bylaws.

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Disposal

Do not discharge into lakes, streams, ponds and ground water supply.

See Section 11 for further health effects/toxicological data.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight%
Base oil package	Mixture	> 98.00

The product contains no substances which at their given concentration, are considered to be hazardous to health.

See Section 8 for Exposure Limits (if applicable).

4. FIRST AID MEASURES

Inhalation	:	Move to well-ventilated area. Monitor for respiratory distress; administer oxygen and assist ventilation as required.
Skin contact	:	Remove all contaminated clothing. Wash area with soap and water for 10 to 15 minutes.
Eye contact	:	Remove contact lenses and irrigate exposed eyes for at least 15 minutes. Irrigate before and after removing the lenses to prevent a carry-over of the substances to the shielded area of the lens.
Ingestion	:	Not expected to be a problem. However, if discomfort occurs seek medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media	:	Carbon dioxide, foam, dry chemical 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 firefighters	:	For fires in enclosed areas, fire fighters must use Self-Contained Breathing Apparatus.
Unusual fire and explosive hazards	:	None.
Products of decomposition	:	Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.
Flash Point	:	268 °C (ASTM D-92)

6. ACCIDENTAL RELEASE MEASURES

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- Procedure if material is released or spilled : Report spills/releases 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 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 if skimming equipment is available to recover the spill for 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.
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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 heat sources, sparks, flames, strong oxidizing agents and combustible materials.
- Storage and handling procedures : Prevent small spills and leakages to avoid slip hazard.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits (OELs)

Components	CAS-No.	Source	TWA	Value		Notations
Base oil package		ACGIH TLV	LTEL	5 mg/m ³		Oil mists

LTEL: Long Term Exposure Limits - Time Weight Average (TWA) over 8 hours.

STEL: Short Term Exposure Limits - Time Weight Average (TWA) over 15 Minutes

Note: Limits Shown for guidance only. Follow applicable regulations.

Personal Protective Equipment (PPE)

- Engineering controls : If mists are generated, use ventilation, local exhaust or enclosures to control below exposure limits.
- Respiratory protection : Approved respiratory equipment must be used when mist concentrations exceed the recommended exposure limits.
- Eye protection : If splash with liquid is possible, chemical type goggles should be worn.
- Skin and body protection : If prolonged or repeated skin contact is likely wear oil impervious gloves and clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid.
Colour	:	Colourless
Odour	:	Mild
Solubility	:	Negligible
Boiling point	:	> 316 °C
Flash Point	:	268 °C (ASTM D-92)
Vapour pressure	:	< 0.1 hPa
Density	:	0.83 g/cm ³ @ 20 °C (ASTM D-4052)
Viscosity, kinematic	:	64.5 mm ² /s @ 40 °C (ASTM D-445) 10.2 mm ² /s @ 100 °C (ASTM D-445)

10. STABILITY AND REACTIVITY

Stability	:	Stable.
Conditions to avoid	:	Extreme heat and high energy sources of ignition, such as sparks and static electricity.
Materials to avoid	:	Strong oxidizers.
Hazardous decomposition products	:	Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Acute toxicity **Components**

Acute oral toxicity	:	No available data.
Acute inhalation toxicity	:	No available data.
Acute dermal toxicity	:	No available data.

Base oil package

Acute oral toxicity	:	LD50 (Rats) : > 2,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rats) : > 5,000 mg/l
Acute dermal toxicity	:	LD50 (Rabbits) : > 2,000 mg/kg

Skin corrosion/irritation **Components**

Result	:	No known significant effects or critical hazards.
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Base oil package

Result	:	No known significant effects or critical hazards.
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Eye irritation **Components**

Result	:	No known significant effects or critical hazards.
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Base oil package

Result	:	No known significant effects or critical hazards.
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Sensitization Components

Remarks : No known significant effects or critical hazards.

Base oil package

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

Germ cell mutagenicity Components

Remarks : No known significant effects or critical hazards.

Base oil package

Remarks : No known significant effects or critical hazards.

Carcinogenicity Components

Remarks : Not classifiable as a human carcinogen.

Base oil package

Remarks : Not classifiable as a human carcinogen.

Reproductive toxicity Components

Remarks : No known significant effects or critical hazards.

Base oil package

Remarks : No known significant effects or critical hazards.

STOT - single exposure Components

Remarks : No known significant effects or critical hazards.

Base oil package

Remarks : No known significant effects or critical hazards.

Specific target organ toxicity (STOT) - repeated exposure Components

Remarks : No known significant effects or critical hazards.

Base oil package

Target Organs : No available data.

Remarks : No known significant effects or critical hazards.

Aspiration hazard Components

Remarks : No significant effects expected.

Base oil package

Remarks : No significant effects expected.

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12. ECOLOGICAL INFORMATION

Ecotoxicity effects Components

Acute toxicity : No available data.
Chronic toxicity : No available data.

Base oil package

Acute toxicity : Fish (Pimephales promelas) 96 hour(s) LL0 100 mg/l: data for similar materials
Invertebrates (Daphnia magna) 48 hour(s) EL0 1000-10000 mg/l: data for similar materials
Algae (Pseudokirchneriella subcapitata) 72 hour(s) EL0 100 mg/l: data for similar materials

Chronic toxicity : Algae (Pseudokirchneriella subcapitata) 72 hour(s) NOELR 100 mg/l: data for similar materials
Invertebrates (Daphnia magna) 21 day(s) NOELR 10-1000 mg/l: data for similar

Persistence and degradability Components

Biodegradability : This product is expected to be inherently biodegradable at a slow to moderate rate.

Base oil package

Biodegradability : This product is expected to be inherently biodegradable.

Bioaccumulation Components

Bioaccumulation : Not established.

Base oil package

Bioaccumulation : Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

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 Conservation 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 considerations 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, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS,

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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 : 268 °C (ASTM D-92)

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

South African Legislation and Standards : South African OHS Act, 85 of 1993: Hazardous Chemical Substances, Regulation 9A
National Environmental Management: Waste Act 2008

South African Guidelines
SANS 10234:2008 - Globally Harmonized System of classification & labelling of chemicals
SANS 11014:2010 - Safety data sheet for chemical products - Content & order of sections

Other regulations : Globally Harmonized System of Classification and Labelling of Chemicals (GHS) [GHS (Rev. 7) (2017)]

16. OTHER INFORMATION

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 its size, the individual should be evaluated immediately by a doctor 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.

Abbreviations That May Have Been Used In This Document:

TLV - Threshold Limit Value	TWA - Time Weighted Average
LTEL - Long-term Exposure Limit	STEL - Short-term Exposure Limit
ACGIH - American Conference of Governmental Industrial Hygienists	CAS - Chemical Abstract Service Number
IMO/IMDG - International Maritime Dangerous Goods Code	SDS – Safety Data Sheet
SANS – South African National Standards	GHS - Globally Harmonized System of Classification and

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	Labelling of Chemicals
STOT – Specific Target Organ Toxicity	OHS Act – Occupational Health and Safety Act
NFPA - National Fire Protection Association (USA)	ECHA - European Chemicals Agency

Sources of key data used to compile the Safety Data Sheet : European Oil Company Organisation for Environment, Health and Safety)
ECHA (<https://echa.europa.eu/information-on-chemicals>)

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Disclaimer

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