



SAFETY DATA SHEET

Multi-energy Heavy Load Gear Oil

Prepared in accordance with the GHS (7th revised edition) as adopted under the model Work Health and Safety Regulations and the Work Health and Safety Act 2020 (WA), and the Safe Work Australia Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals.

SDS number: SKZ-SDS-2026-012 **Version:** 1.1 **Issue date:** 14 July 2026

Revision date: 14 July 2026 **Next review due (5-year):** 14 July 2031

Section 1 — Identification

Product identifier: Multi-energy Heavy Load Gear Oil

Product grades: SAE 80W-90 / 85W-90 / 85W-140.

Recommended use: Extreme-pressure multipurpose gear oil for heavy-duty automotive and industrial gear sets and final drives.

Restrictions on use: Use only for the purpose specified above.

Supplier

- SKZ Holding Pty Ltd (ABN 18 673 694 785)
- 11 Baile Road, Canning Vale WA 6155, Australia
- Telephone: +61 8 6580 1526

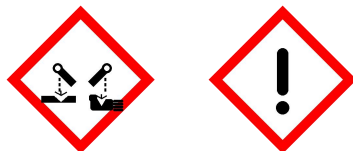
Emergency telephone number

- 0466 851 366 (24-hour emergency contact)

Section 2 — Hazard(s) Identification**GHS classification (7th revised edition)**

- Skin irritation — Skin Irritation Category 2.
- Skin sensitisation — Skin Sensitisation Category 1.
- Serious eye damage — Eye Damage Category 1.
- Hazardous to the aquatic environment (long-term) — Aquatic Chronic Category 2.

Classification basis: The aminic antioxidant (N,N'-di-sec-butyl-p-phenylenediamine; Skin Corr. 1C / Skin Sens. 1) is present at $\geq 1\%$, classifying the mixture as Skin Irrit. 2 (H315) and Skin Sens. 1 (H317). The ingredients classified Eye Dam. 1 reach a combined concentration of $\geq 3\%$, classifying the mixture as Eye Dam. 1 (H318). The aquatic-hazardous ingredients classify the mixture as Aquatic Chronic 2 (H411) by the GHS summation method.

Label elements

Signal word: Danger

Hazard statements

- H315 — Causes skin irritation.

- H317 — May cause an allergic skin reaction.
- H318 — Causes serious eye damage.
- H411 — Toxic to aquatic life with long-lasting effects.

Precautionary statements

- P261 — Avoid breathing mist / vapours / spray.
- P264 — Wash hands and exposed skin thoroughly after handling.
- P273 — Avoid release to the environment.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P280 — Wear protective gloves and eye protection / face protection.
- P302+P352 — IF ON SKIN: Wash with plenty of water and soap.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 — Immediately call a POISON CENTER / doctor.
- P333+P313 — If skin irritation or rash occurs: Get medical advice / attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.
- P391 — Collect spillage.
- P501 — Dispose of contents and container in accordance with applicable regulations.

Other hazards

- Combustible at high temperature, although not classified as a flammable liquid (flash point > 180 °C).
- Prolonged or repeated skin contact may cause dryness or dermatitis; the product contains a skin sensitizer (see Section 3).
- Used (in-service) oil may contain harmful wear metals and combustion or oxidation by-products, and should be handled with greater care than fresh product.

Section 3 — Composition / Information on Ingredients

Mixture of mineral base oil and a performance additive package. Ingredients are listed below with their individual GHS classifications; the classification of the finished product is given in Section 2.

Ingredient	CAS No.	Conc. (%)	GHS classification of the ingredient
Highly refined white mineral oil	8042-47-5	90–96	Not classified.
Calcium petroleum sulfonate	61789-86-4	0.5–1.5	Not classified.
Zinc dialkyldithiophosphate (ZDDP)	84605-29-8	1.2–2.5	Skin Irrit. 2 (H315); Eye Dam. 1 (H318); Aquatic Chronic 2 (H411).
Poly(isobutylene-maleimide) copolymer	89360-06-5	1.5–2.8	Not classified.
N,N'-di-sec-butyl-p-phenylenediamine (aminic antioxidant)	101-96-2	0.8–3.2	Acute Tox. 3 oral (H301); Skin Corr. 1C (H314); Eye Dam. 1 (H318); Skin Sens. 1 (H317); Aquatic Acute 1 / Aquatic Chronic 1 (H410); STOT RE 2 (H373).

Section 4 — First-aid Measures

Eye contact: Rinse cautiously with flowing water or saline for several minutes; remove contact lenses if present and easy to do, and continue rinsing. Immediately call a poison centre or doctor.

Skin contact: Remove contaminated clothing and wash the affected area with soap and water. As the product contains a skin sensitizer, obtain medical attention if a skin reaction occurs.

Inhalation: Move the affected person to fresh air. If breathing is difficult, give oxygen; if breathing stops, give artificial respiration and obtain medical attention immediately.

Ingestion: Do NOT induce vomiting (aspiration risk). Rinse mouth and obtain medical attention.

Section 5 — Fire-fighting Measures

Suitable extinguishing media: Water fog, foam, dry chemical powder, carbon dioxide (CO₂) or sand.

Unsuitable extinguishing media: Do not use high-pressure water jets, which may spread the fire.

Specific hazards: Burns at high temperature. Combustion produces carbon monoxide, carbon dioxide and other toxic gases.

Advice for firefighters: Fight the fire from upwind. Wear full protective clothing and self-contained breathing apparatus (SCBA). Contain fire-water run-off to prevent environmental release.

Section 6 — Accidental Release Measures

Personal precautions: Isolate the area and restrict access. Eliminate ignition sources. Avoid eye and skin contact; wear protective equipment (Section 8) and stay upwind. Beware of slippery surfaces.

Environmental precautions: This product is toxic to aquatic life. Prevent the spill from entering drains, sewers, soil or watercourses. Notify the relevant authorities if containment is not possible.

Containment and clean-up: Contain and absorb with sand, earth, sawdust or other inert absorbent; collect into covered, labelled containers and dispose of via a licensed waste contractor (Section 13).

Section 7 — Handling and Storage

Precautions for safe handling: Provide good ventilation. Wear eye protection and gloves. Keep away from heat and ignition sources; no smoking in the workplace. Wash thoroughly after handling. Do not dispose of empty containers carelessly — they may retain hazardous residue.

Conditions for safe storage: Store in a cool, dry, well-ventilated area away from heat and ignition sources, separated from incompatible materials (Section 10). Keep containers tightly closed and labelled. Provide spill containment (bundling) to prevent environmental release.

Section 8 — Exposure Controls / Personal Protection

Exposure standards

Oil mist, refined mineral (CAS 8012-95-1) — Safe Work Australia Workplace Exposure Limit: 8-hour TWA 5 mg/m³ (no STEL). Applies to any oil mist generated in use.

Engineering controls: Provide good natural or local exhaust ventilation, particularly where oil mists may be generated.

Eye/face protection: Wear chemical safety goggles and a face shield (the product causes serious eye damage).

Skin protection: Wear protective clothing and oil-resistant gloves (e.g. nitrile or neoprene). The product contains a skin sensitiser.

Respiratory protection: Not normally required under adequate ventilation. Where oil mist exceeds the exposure limit, wear an approved particulate respirator.

Section 9 — Physical and Chemical Properties

Appearance: Amber liquid.

Odour: Characteristic petroleum odour.

Kinematic viscosity (100 °C): 16.25 / 17.15 / 27.35 mm²/s (by grade).

Relative density (15.6 °C): 0.856 – 0.863 g/cm³.

Flash point: > 180 °C (ASTM D-92).

Boiling point / range: > 300 °C.

Solubility: Insoluble in water.

Section 10 — Stability and Reactivity

Reactivity / chemical stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions: None known under normal conditions; will not polymerise.

Conditions to avoid: Open flame, high heat, sparks and other ignition sources.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Combustion produces carbon monoxide, carbon dioxide and other toxic gases.

Section 11 — Toxicological Information

Eye: classified as causing serious eye damage (Eye Dam. 1, H318). Skin: classified as causing skin irritation (Skin Irrit. 2, H315) and as a skin sensitiser (Skin Sens. 1, H317), driven by the aminic antioxidant; prolonged or repeated contact may cause dermatitis or an allergic skin reaction. Inhalation: generally not harmful under normal conditions; avoid oil mist. Ingestion: may cause gastrointestinal irritation.

Aspiration hazard: not applicable — the product's kinematic viscosity is above the 20.5 mm²/s (40 °C) cut-off. Highly refined mineral base oils are not classified as carcinogenic. No product-specific LD50/LC50 data are available.

Section 12 — Ecological Information

Classified as hazardous to the aquatic environment — Aquatic Chronic 2 (H411): toxic to aquatic life with long-lasting effects. Avoid release to drains, soil and watercourses.

No product-specific aquatic toxicity, persistence or bioaccumulation data are available; the classification is derived from the ingredient data in Section 3 by the GHS summation method.

Section 13 — Disposal Considerations

Disposal methods: Recover, recycle or reuse where practicable; otherwise dispose of through a licensed waste contractor in accordance with applicable Commonwealth, State and local regulations. For WA, manage used oil consistently with the Product Stewardship (Oil) arrangements where relevant. Do not discharge to drains, sewers, soil or watercourses.

Contaminated packaging: Empty containers retain residue and may be hazardous. Clean or render safe before disposal or recycling.

Section 14 — Transport Information

Because the product is classified as hazardous to the aquatic environment (long-term, Category 2), it meets the criteria for an Environmentally Hazardous Substance for transport.

UN number: UN 3082 (Environmentally Hazardous Substance, Liquid, n.o.s.).

Class / packing group: Class 9, Packing Group III (ADG / IMDG / IATA).

Marine pollutant: Yes.

ADG small-packaging exemption: when transported by road or rail in single or combination packagings containing no more than 5 L (or 5 kg) per inner packaging, the product is not subject to the ADG Code as an environmentally hazardous substance. Larger packagings (drums, IBCs, bulk) are subject to Class 9 requirements.

Section 15 — Regulatory Information

Australia – Hazardous chemical (WHS): Classified as a hazardous chemical (Skin Irrit. 2, Skin Sens. 1, Eye Dam. 1) under the model WHS Regulations. Workplace labelling and the hazardous chemical register requirements apply. (The aquatic hazard classes are excluded from the WHS definition of a hazardous chemical.)

Australia – Dangerous Good (ADG): Classified as an Environmentally Hazardous Substance — see Section 14, including the 5 L / 5 kg small-packaging exemption.

Poisons Standard (SUSMP): Not scheduled (no poisons schedule number allocated).

AICIS – Australian Inventory of Industrial Chemicals (AIIC): Ingredients are industrial chemicals for the Australian market.

Section 16 — Other Information

Prepared by: SKZ Holding Pty Ltd.

Reason for issue: Version 1.1 — Section 3 presented in tabular format; the aquatic hazard classification was reviewed and updated in accordance with the GHS summation method.

Classification method: Mixture classification by the additivity / concentration-limit and summation methods using the ingredient classifications in Section 3.

Abbreviations: GHS – Globally Harmonised System; SDS – Safety Data Sheet; ADG – Australian Dangerous Goods Code; AICIS – Australian Industrial Chemicals Introduction Scheme; ZDDP – zinc dialkyldithiophosphate; PAO – poly-alpha-olefin; NLGI – National Lubricating Grease Institute; CAS – Chemical Abstracts Service; SCBA – self-contained breathing apparatus; TWA – time-weighted average; M – multiplying factor.

This SDS describes the product for safe handling and does not constitute a product specification or warranty.