## 1. Identification

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| **Product name** | Z Premium Thermic Fluid (Heat Transfer Oil) |
| **Product code** | ZP-THERMIC-FLUID |
| **Recommended use** | Z Premium Thermic Fluid is a highly refined mineral heat transfer oil for closed, indirectly heated thermic fluid heaters. |
| **Uses advised against** | Uses other than those recommended. Not for food contact or medical use. |
| **Supplier** | Jenson & Jenson Lubricant (brand: Z Premium Oils), Bhushan Bhawan, 452, Azadpur, Delhi 110033, India |
| **Telephone** | +91 98116 40318 |
| **Email** | zpremiumcorporate@gmail.com |
| **Emergency telephone** | +91 98116 40318 (office hours, IST). In a medical emergency call 112 or the nearest poison centre. |

## 2. Hazard identification

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| **GHS classification** | Not classified as hazardous under GHS. |
| **Label elements** | No pictogram, signal word or hazard statement required. |
| **Other hazards** | Spilled product makes surfaces slippery. Prolonged or repeated skin contact may cause dryness or irritation. High-pressure injection under the skin is a medical emergency. |

## 3. Composition / information on ingredients

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| **Substance / mixture** | Mixture |
| **Base fluid** | Highly refined mineral base oil; CAS 64742-54-7 / 64742-65-0 / 64742-52-5; 75 to 99 % by weight |
| **Performance additives** | Proprietary blend; below 15 % by weight; not present above GHS classification cut-off values |
| **Note** | Mineral base oils used contain less than 3 % DMSO extract (IP 346) and are not classified as carcinogenic. |

## 4. First-aid measures

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|---|---|
| **Inhalation** | Move to fresh air if oil mist or vapour from hot product causes discomfort. Get medical advice if symptoms persist. |
| **Skin contact** | Remove contaminated clothing. Wash skin with soap and water. For high-pressure injection injuries get immediate surgical attention, even if the wound looks minor. |
| **Eye contact** | Rinse with plenty of clean water for several minutes, holding eyelids open. Get medical advice if irritation persists. |
| **Ingestion** | Rinse mouth with water. Do not induce vomiting. Get medical advice if a large amount is swallowed. |
| **Note to physician** | Treat symptomatically. |

## 5. Fire-fighting measures

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|---|---|
| **Suitable extinguishing media** | Foam, dry chemical powder, carbon dioxide, water fog. |
| **Unsuitable media** | Do not use a direct water jet; it may spread burning oil. |
| **Specific hazards** | Combustion produces carbon monoxide, carbon dioxide, smoke and oxides of sulphur, phosphorus or zinc depending on additives. |
| **Advice for fire-fighters** | Wear self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water spray. |

## 6. Accidental release measures

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|---|---|
| **Personal precautions** | Avoid contact with skin and eyes. Spills make floors slippery. |
| **Environmental precautions** | Prevent entry into drains, sewers, soil and water courses. |
| **Clean-up** | Contain with sand, earth or absorbent material. Collect in labelled containers for disposal through a licensed handler. |

## 7. Handling and storage

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|---|---|
| **Safe handling** | Avoid prolonged skin contact and breathing oil mist. Do not eat, drink or smoke while handling. Wash hands after use. Do not pressurise, cut or weld empty containers. |
| **Storage** | Store in closed original containers in a cool, dry, ventilated place away from heat, open flames and strong oxidisers. Keep drums horizontal or covered to keep out water. |

## 8. Exposure controls / personal protection

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|---|---|
| **Exposure limit** | Oil mist (mineral oil, highly refined): 5 mg/m3 TWA (ACGIH TLV, inhalable fraction). |
| **Engineering controls** | General ventilation. Use local exhaust where mist or vapour is generated. |
| **Hand protection** | Nitrile or neoprene gloves for prolonged contact. |
| **Eye protection** | Safety glasses with side shields; goggles if splashing is likely. |
| **Skin protection** | Work clothes; oil-resistant apron for drum handling. |

## 9. Physical and chemical properties

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|---|---|
| **Physical state** | Liquid |
| **Odour** | Mild petroleum odour |
| **Kinematic viscosity at 40 °C** | 28–35 cSt |
| **Flash point** | 210 °C |
| **Pour point** | -6 °C |
| **Solubility in water** | Insoluble |
| **Other properties** | See the technical data sheet for typical values. |

## 10. Stability and reactivity

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|---|---|
| **Stability** | Stable under normal conditions of storage and use. |
| **Conditions to avoid** | Excessive heat, open flames and sources of ignition. |
| **Incompatible materials** | Strong oxidising agents. |
| **Hazardous decomposition** | None under normal use. Combustion gives carbon oxides and smoke. |

## 11. Toxicological information

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|---|---|
| **Acute toxicity** | Low. Base fluids of this type have oral LD50 above 5,000 mg/kg (rat) and dermal LD50 above 2,000 mg/kg (rabbit). |
| **Skin / eye** | Not expected to be irritating. Prolonged contact may defat the skin. |
| **Aspiration** | Not classified. |
| **Carcinogenicity, mutagenicity, reproductive toxicity** | Not classified based on available data for the components. |

## 12. Ecological information

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|---|---|
| **Ecotoxicity** | Not expected to be harmful to aquatic organisms at normal exposure, but oil films on water can harm aquatic life. |
| **Persistence** | Base oil is inherently biodegradable but not readily biodegradable. |
| **Mobility** | Floats on water; adsorbs onto soil. |

## 13. Disposal considerations

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|---|---|
| **Product and used oil** | Used and waste oil is a hazardous waste under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Hand over only to a CPCB/SPCB-registered recycler or re-refiner. Do not burn or dump. |
| **Packaging** | Drain containers completely and send to a licensed recycler. |

## 14. Transport information

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|---|---|
| **UN number** | Not applicable |
| **Classification** | Not regulated as dangerous goods for road (ADR), sea (IMDG) or air (IATA) transport. |
| **Marine pollutant** | No |

## 15. Regulatory information

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|---|---|
| **India** | Handle, store and dispose of in line with the Factories Act, 1948, the MSIHC Rules, 1989 and the Hazardous and Other Wastes Rules, 2016. |
| **GHS** | Classified according to the UN Globally Harmonized System, Rev. 9. |

## 16. Other information

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|---|---|
| **Version** | 1.0 |
| **Date of issue** | 09 November 2026 |
| **Prepared by** | Technical Department, Jenson & Jenson Lubricant |
| **Abbreviations** | GHS: Globally Harmonized System; TWA: time-weighted average; TLV: threshold limit value; LD50: lethal dose 50 %. |

The information in this safety data sheet is based on our present knowledge of the product and its components and is given in good faith. It describes the product for health, safety and environmental purposes only and is not a product specification. Users should make their own risk assessment for their specific use.