

## SAFETY DATA SHEET

### RZ 58E TCM Oil Energizer

Prepared in accordance with Safe Work Australia's GHS Revision 7 (2020)

#### SECTION 1: Identification of the substance and supplier

Product Name: RZ 58E TCM Oil Energizer

Recommended Use: Lubricant / Additive

Supplier: RZ Oil

Address: Level 14, 3 Parramatta Square, Parramatta NSW 2150

ABN: 64 575 794 510

Emergency Contact: Poisons Information Centre (Australia-wide): 13 11 26

#### SECTION 2: Hazard(s) Identification

Classification:

- Skin Irritation – Category 2
- Serious Eye Damage – Category 1
- Reproductive Toxicity – Category 1B
- Hazardous to the Aquatic Environment – Acute Category 1, Chronic Categories 1, 2, 3, 4

Signal Word: Danger

Hazard Statements:

- H315: Causes skin irritation
- H318: Causes serious eye damage
- H360: May damage fertility or the unborn child
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects
- H411: Toxic to aquatic life with long lasting effects
- H412: Harmful to aquatic life with long lasting effects
- H413: May cause long lasting harmful effects to aquatic life

#### SECTION 3: Composition / Information on Ingredients

Oil mixture, synthetic –  $>50\text{--}\leq 80\%$  – Non-hazardous

Molybdenum compound –  $>10\text{--}\leq 25\%$  – Non-hazardous

Organo-tungstate –  $\geq 5\text{--}\leq 10\%$  – Non-hazardous

Lubricating oils –  $\geq 1\text{--}\leq 5\%$  – Non-hazardous

O,O,O-triphenyl phosphorothioate –  $1\text{--}\leq 5\%$  – H413

Distillates (petroleum), hydrotreated heavy paraffinic –  $1\text{--}\leq 5\%$  – Non-hazardous

Zinc dialkyldithiophosphate –  $\geq 0.25\text{--}< 1\%$  – H315, H318, H411

Alkaryl amine –  $\geq 0.01\text{--}\leq 1\%$  – H413

Phenol, tetrapropylene-, sulfurized, carbonates, calcium salts –  $\geq 0.01\text{--}\leq 1\%$  – H413

Organomolybdenum amide –  $\geq 0.01\text{--}< 0.25\%$  – H411

Phosphorodithioic acid, mixed O,O-Bis (2-ethylhexyl and isobu) esters, zinc salts with oil – 0.1–≤1% –  
Non-hazardous

Zinc oxide – ≥0.025–≤0.1% – H400, H410

Alcohols, C12-16, ethoxylated – ≥0.001–≤0.1% – H412

Phenol, 4-dodecyl – 0.001–≤0.01% – H360, H318

#### **SECTION 4: First Aid Measures**

Inhalation: Move to fresh air. Seek medical advice if unwell.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Rinse cautiously with water for several minutes; remove contact lenses if present.

Ingestion: Rinse mouth. Do not induce vomiting. Call Poisons Centre immediately (13 11 26).

#### **SECTION 5:**

Extinguishing Media: CO<sub>2</sub>, foam, dry chemical, water spray.

Hazards: Extremely flammable aerosol. Pressurised container: may burst if heated.

Protection: Wear standard firefighting PPE.

#### **SECTION 6:**

Personal: Avoid skin/eye contact; use PPE.

Spill Cleanup: Ensure adequate ventilation. Absorb with inert material; dispose per Section 13.

Environmental: Prevent entry into drains/waterways.

#### **SECTION 7:**

Handling: Avoid breathing vapour/mist; avoid skin/eye contact.

Storage: Store in well-ventilated, cool area away from incompatible substances.

#### **SECTION 8:**

Engineering Controls: Ensure adequate ventilation.

Personal Protection: Gloves, goggles.

Exposure Standards: No specific exposure limits established.

#### **SECTION 9:**

Appearance: Red-brown fluid

Boiling Point: ~360°C (Molybdenum compound)

Flash Point: 210°C

Density: ~0.878 g/cm<sup>3</sup>

Solubility: Not miscible with water

Viscosity: 42 mm<sup>2</sup>/s at 40°C

#### **SECTION 10:**

Stable under normal conditions of use and storage.

Avoid extreme heat.

Incompatible with strong oxidising agents.

#### **SECTION 11:**

Causes serious eye irritation.

Ingestion may cause gastrointestinal discomfort.

#### **SECTION 12:**

Avoid release to the environment.

Toxic to aquatic life with long lasting effects.

**SECTION 13:**

Dispose of in accordance with local regulations.  
Do not discharge into drains.

**SECTION 14:**

Not classified as Dangerous Goods under ADG Code.

**SECTION 15:**

Classified as hazardous under Safe Work Australia GHS.  
Not a scheduled poison.

**SECTION 16:**

Prepared in accordance with the Model Work Health and Safety Regulations and GHS Revision 7.

*Issue Date: 10 August 2025*

*Version: 1.0 AU Compliant*