

Termin-8R Extreme Pressure Lubricant

SECTION 1. IDENTIFICATION

Product Identifier	Termin-8R Extreme Pressure Lubricant
Part number	ZT8R, ZT8R-LI
Product Family	Mixture
Recommended Use	Corrosion inhibitor.
Restrictions on Use	None known.
Supplier Identifier	Spectra Products Inc., 41 Horner Avenue, Unit 2, Toronto, ON, M8Z 4X4, 416.252.2355
Emergency Phone No.	Immediately contact your local poison control centre. CANUTEC, +1.613.996.6666, for transportation emergencies.

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable aerosol - Category 2; Gas under pressure - Compressed gas

Label Elements



Warning

Flammable aerosol.

Pressurized container: may burst if heated.

Contains gas under pressure; may explode if heated.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Pressurized container: Do not pierce or burn, even after use.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F).

Store in a well-ventilated place.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Mineral oil	64742-65-0	45-70		
Petroleum gases, liquefied	68476-85-7	15-20		
Kerosine (petroleum), hydrodesulfurized	64742-81-0	7-13		
Zinc dinonylnaphthalenesulfonate	28016-00-4	1-5		
Calcium alkylnaphthalene sulfonate	57855-77-3	1-5		

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Distillates (petroleum), hydrotreated light	64742-47-8	1-5		
Alcohol ethoxylate	84133-50-6	1-5		

Notes

Any concentration shown as a range is due to batch processing, actual concentration is confidential.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

Ingestion

Get medical advice or attention if you feel unwell or are concerned.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam. Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

DO NOT use water or water-based extinguishing agents.

Specific Hazards Arising from the Product

Closed containers may rupture violently when heated releasing contents. Contains gas under pressure; may explode if heated. Flammable aerosol. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire hazard. May travel a considerable distance to a source of ignition and flash back to a leak or open container.

Fumes and smoke.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Fight fire from a safe distance or a protected location.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not allow into any sewer, on the ground or into waterway.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Do not puncture or incinerate container even when empty. Do not spray on an open flame or other ignition source. Do not pierce or burn container, even after use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling
Distillates (petroleum), hydrotreated light	200 mg/m ³ A3	Not established	Not established	Not established
Petroleum gases, liquefied	800 ppm	1000 ppm C		

Appropriate Engineering Controls

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted. Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Red Aerosol.
Odour	Characteristic
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Boiling Range	Not available
Flash Point	> 127 °C (closed cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Flammable aerosol
Upper/Lower Flammability or Explosive Limit	6.0% (upper); 1.0% (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1.0
Relative Density (water = 1)	0.859
Solubility	Not available in water
Partition Coefficient, n-	Not available

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Octanol/Water (Log Kow)

Auto-ignition Temperature	229 °C (Kerosine (petroleum), hydrodesulfurized)
Decomposition Temperature	Not available
Viscosity	28.59 centistokes at 40°C (kinematic)
Other Information	
VOC %	22.7
Flame projection	> 45 cm < 100 cm
NFPA Classification	Aerosol, Level 1

SECTION 10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions of use.

Chemical Stability

Stable at ambient temperatures and pressures.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Oxidizing agents (e.g. peroxides).

Hazardous Decomposition Products

Fumes and smoke may be generated.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation;
Skin contact;
Eye contact;
Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Calcium alkyl-naphthalene sulfonate	> 18000 mg/m ³ (rat) (1-hour exposure)	> 5000 mg/kg (rat)	> 20 mg/kg (rabbit)
Distillates (petroleum), hydrotreated light	> 5000 mg/m ³ (rat) (6-hour)	> 5000 mg/kg (rat)	> 5000 mg/kg (rabbit)
Mineral oil	Not available	> 5000 mg/kg (rat)	> 5000 mg/kg (rabbit)
Kerosine (petroleum), hydrodesulfurized	> 5200 mg/m ³ (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Alcohol ethoxylate	Not available	2100 mg/kg (rat)	Not available

Skin Corrosion/Irritation

There is limited evidence of mild irritation.

Serious Eye Damage/Irritation

There is limited evidence of mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure**Inhalation**

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May cause nose and throat irritation.

Skin Absorption

No information was located.

Ingestion

Ingestion can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated light	A3	Group 3	Not Listed	Not Listed
Mineral oil	A4	Group 3	Not Listed	Not Listed
Petroleum gases, liquefied	Not Listed	Not Listed	Not Listed	Not Listed

Not known to cause cancer.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.

IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans.

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

This section is not required by OSHA HCS 2012.

Ecotoxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Distillates (petroleum), hydrotreated light	1000 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	1000 mg/L (Daphnia magna (water flea); 48-hour)		1000 mg/L (Pseudokirchneriella subcapitata (algae); 72-hour)
Kerosine (petroleum), hydrodesulfurized		1.4 mg/L (Daphnia magna (water flea); 48-hour)		3 mg/L (Desmodesmus subspicatus (algae); 48-hour)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty containers retain product residue. Follow label warnings even if container appears to be empty. Do not reuse empty containers. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container. Dispose of contents and container in accordance with local, regional, national and international regulations.

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SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1950	Aerosols	2.1	---
US DOT	UN1950	Aerosols	2.1	---
IMDG (Marine)	UN1950	Aerosols	2.1	---
IATA (Air)	UN1950	Aerosols, flammable	2.1	---

Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

Emergency Response Guide No. 126 EmS F-D, S-U

Other Information ICAO/IATA PI Y203/203
Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

(Distillates (petroleum), hydrotreated light) Part 5.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

CERCLA: Not applicable.

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 313: Not applicable.

California Proposition 65: Not applicable.

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (Petroleum gases, liquefied)

Pennsylvania Right To Know. (Petroleum gases, liquefied)

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 1 Flammability - 2 Instability - 0
Based on Kerosine (petroleum), hydrodesulfurized

SDS Prepared By Regulatory Compliance

Phone No. 905.847.0222

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Revision Indicators The following SDS content was changed on November 26, 2018:
SECTION 1. IDENTIFICATION; Emergency Phone No.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS; Ingredient Information;
Notes.
The following SDS content was changed on February 10, 2021:

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION; Exposure Guidelines.
The following SDS content was changed on November 26, 2021:
SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity.
The following SDS content was changed on December 03, 2021:
SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity.
The following SDS content was changed on December 06, 2021:
SECTION 11. TOXICOLOGICAL INFORMATION; LC50/LD50 values.
The following SDS content was changed on December 10, 2021:
SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity.

Key to Abbreviations

ACGIH® = American Conference of Governmental Hygienists
CANUTEC = Canadian Transport Emergency Centre
CAS = Chemical Abstract Service
CCOHS = Canadian Centre for Occupational Health & Safety
CNS = Central nervous system
GESTIS = GESTIS Substance Database
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
ICAO = International Civil Aviation Organization
IMDG = International Maritime Dangerous Goods Code
LC = Lethal concentration
LD = Lethal dose
NFPA = National Fire Protection Association
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration
PPM = Parts per million
RTECS® = Registry of Toxic Effects of Chemical Substances
STEL = Short term exposure limit
TDG = Transportation of Dangerous Goods Regulations (Canada)
TWA = Time weighted average

References

Material safety data sheet from manufacturer.
CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
ECHA - European Chemical Agency, Classification and Labelling Inventory
GESTIS Substance Database
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

Disclaimer

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