



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Termalene EP Multipurpose Extreme Pressure Grease 1
Product Code 72420
Version # 1.3
Revision date 07-14-2012
Synonym(s) Termalene EP Grease 1
Manufacturer information Bel-Ray Company, Inc.
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2. Hazards Identification

Emergency overview Harmful in contact with eyes. Prolonged exposure may cause chronic effects.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Eyes Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material in contact with eyes.
Skin Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.
Inhalation Avoid breathing dust/fume/gas/mist/vapors/spray.
Ingestion Components of the product may be absorbed into the body by ingestion. Do not ingest.
Target organs Eyes. RESPIRATORY SYSTEM. Skin.
Chronic effects Conjunctiva. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms Corneal damage. Conjunctivitis. Defatting of the skin. Skin irritation. Rash.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Distillates (petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	0 - 100
Distillates (petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	0 - 100
Distillates (petroleum), Solvent-refined Heavy Paraffinic	64741-88-4	0 - 100
Residual Oils (petroleum), Solvent-refined	64742-01-4	0 - 100
White Mineral Oil (petroleum)	8042-47-5	0 - 100
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)	15874-48-3	1 - 2.5
Other components below reportable levels		2.5 - 10

Composition comments IP 346: < 3.0% DMSO extract for all base oil substances.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin contact Wash off with warm water and soap. Get medical attention if irritation develops and persists.

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control center immediately. Never give liquid to an unconscious person.
Notes to physician	Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria. Not combustible by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Hazardous combustion products	Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Hydrogen sulfide (H2S) may be given off when this material is heated. Do not depend on sense of smell for warning.
Storage	Class IIIB Combustible Liquid. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	TWA	5 mg/m3	Inhalable Fraction.
US. ACGIH Threshold Limit Values			
Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0.5 mg/m3	
White Mineral Oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	PEL	0.5 mg/m3	
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	PEL	5 mg/m3	Mist.
Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)	PEL	2000 mg/m3 500 ppm 5 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	PEL	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	PEL	2000 mg/m3 500 ppm 5 mg/m3	Mist.
White Mineral Oil (petroleum) (8042-47-5)	PEL	5 mg/m3	Mist.

Exposure guidelines Occupational Exposure Limits are not relevant to the current physical form of the product.

Personal protective equipment

Eye / face protection	Do not get in eyes. Chemical goggles are recommended. Eye wash fountain is recommended.
Skin protection	Wear appropriate chemical resistant clothing. Chemical resistant gloves.
Respiratory protection	No personal respiratory protective equipment normally required.
General hygiene considerations	Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Gel.
Form	Grease
Color	Red.
Odor	Petroleum
Odor threshold	Not available.
pH	Not available.
Vapor pressure	0 hPa estimated
Density	858 kg/m ³
Vapor density	Not available.
Boiling point	680 °F (360 °C) estimated (Base Oil)
Melting point/Freezing point	Not available.

Solubility (water)	Negligible
Solubility (other)	Oil
Specific gravity	0.86
Relative density	Not available.
Flash point	417.2 °F (214 °C) Pensky-Martens Closed Cup
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	500 °F (260 °C) estimated (Base Oil)
VOC	0.03 % estimated
Viscosity	180 cSt (Base Oil)
Other data	
Viscosity temperature	104 °F (40 °C)
Percent volatile	0.03 % estimated
Other data	
Drop point	489.2 °F (254 °C)
Flammability class	Combustible IIIB estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Not available.
Hazardous decomposition products	Toxic gas. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide. Mercaptans.

11. Toxicological Information

Toxicological data

Product	Test Results
Termalene EP Multipurpose Extreme Pressure Grease 1 (Mixture)	Acute Other LD50 Rat: 70370.37 mg/kg estimated
Local effects	Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.
Chronic effects	Hazardous by OSHA criteria. Prolonged exposure may cause chronic effects.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
ACGIH Carcinogens	
Distillates (petroleum), Hydrotreated Heavy Naphthenic MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-52-5)	A4 Not classifiable as a human carcinogen.
Distillates (petroleum), Solvent-refined Heavy Paraffinic MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64741-88-4)	A4 Not classifiable as a human carcinogen.
White Mineral Oil (petroleum) MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 8042-47-5)	A4 Not classifiable as a human carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity	
MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5)	3 Not classifiable as to carcinogenicity to humans.

12. Ecological Information

Persistence and degradability	Not available.
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13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.
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CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Water Act (CWA)	Hazardous substance
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State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5) Listed.

Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) Listed.

Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4) Listed.

Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5) Listed.

Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) Listed.

Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4) Listed.

White Mineral Oil (petroleum) (CAS 8042-47-5) Listed.

16. Other Information

Further information	HMIS® is a registered trade and service mark of the NPCA.
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HMIS® ratings

Health: 1*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

Disclaimer

Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

Issue date

07-14-2012

This data sheet contains changes from the previous version in section(s):

Composition / Information on Ingredients: Component Summary