

BOESHIELD® T-9 (LIQUID)

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	BOESHIELD T-9® (Liquid)
Product Code	T90001, T90104, T90104BK, T91000, T95000, T90055

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Multi-purpose Lubricant
Uses Advised Against	None
Company Identification	PMS Products Inc. 76 Veterans Dr., Ste 110 Holland, MI 49423
Telephone	(800) 962-1732

Emergency telephone number

EMERGENCY CONTACT: CHEMTEL (#MIS496743)
PHONE : 800-255-3924 (US / Canada)
PHONE : +01-813-248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam.3; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1

Label elements

Hazard Symbol



DANGER

Signal word(s)

Hazard Statement(s)

Flammable liquid and vapor
Causes mild skin irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.

Precautionary Statement(s)

Wear protective gloves.
Keep away from heat/sparks/open flames/hot surfaces – No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wash hands thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do NOT induce vomiting
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
If skin irritation occurs: Get medical advice/attention If eye irritation persists:
Get medical advice/attention
Store locked up
Store in a well ventilated place. Keep cool

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Dispose of contents/container to comply with all local, state, and federal regulations
Keep out of reach of children.

Other hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Petroleum distillate	40-50	64742-47-8	Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Hydrotreated Heavy Petroleum Naphtha	20-30	64742-48-9	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE 3; H336
Distillates (petroleum), Hydrotreated Heavy Naphthenic	10-15	64742-52-5	Asp. Tox. 1; H304
Diethylene glycol monobutyl ether	1 - 5	112-34-5	Eye Irrit. 2A; H319
Fragrance	<0.05	Mixture	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2A; H319

Additional Information – Note: The specific chemical identity and/or percentage of composition of the remainder is being withheld as a trade secret.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get immediate medical attention.
Most important symptoms and effects, both acute and delayed	May be fatal if swallowed and enters airways. Do NOT induce vomiting.
Indication of any immediate medical attention and special treatment needed	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or water spray.
-Unsuitable Extinguishing Media	Do not use water jet.

Special hazards arising from the substance or mixture

None

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Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Environmental precautions

None

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections

None

Additional Information

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Use product in a well-ventilated area only. Do not use in confined spaces.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Keep container tightly closed.

-Incompatible materials

This product should be stored away from sources of strong heat or oxidizing chemicals.

Specific end use(s)

Lubricant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Mineral oils / Oil Mist	-----	5 mg/m3	5 mg/m3 ⁽¹⁾	-----	-----	⁽¹⁾ Inhalable
Alkanes (C9-C15)	-----	-----	1200 mg/m3	-----	-----	-----

Recommended monitoring method

NIOSH 1550 (Naphthas); NIOSH 5026 (Oil mist; mineral)

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

Personal protection equipment

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber or Butyl rubber). Check with protective equipment manufacturer's data.



Respiratory protection

Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.



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Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
Appearance	Liquid
Color.	Light amber
Odor	Petroleum solvent
Odor Threshold (ppm)	Not available
pH (Value)	Not applicable
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	193°C (380°F)
Flash Point (°C)	-54°C (129°F)
Evaporation Rate	>1 (NBA = 1)
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not available
Vapor pressure (Pascal)	66.66
Vapor Density (Air=1)	Not available
Density (g/ml)	0.82
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	Not available
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	<25 percent
Other information	

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Avoid contact with heat and ignition sources.
Incompatible materials	This product should be stored away from sources of strong heat or oxidizing chemicals.
Hazardous decomposition product(s)	Carbon monoxide, Carbon dioxide, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Hydrotreated Light Distillate (CAS No. 64742-47-8) - By analogy with similar materials:

Acute toxicity	Oral: LD50 >5 g/kg-bw Dermal: LD50 >2 g/kg-bw Inhalation: LC50 >20 mg/l (Vapor), 4-hr. rat - May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
Irritation/Corrosivity	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	No data
Carcinogenicity	It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

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Mutagenicity
Reproductive toxicity
Information on toxicological effects

Not to be expected
Not to be expected

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Petroleum Distillate (64742-47-8) - By analogy with similar materials:

Short term
LC50 (96 hour): 2.5 mg/L (fish)
EC50 (48 hour): 1.4 mg/L (crustacea)
EC50 (72 hour): 1.3 mg/L (algae)

Long Term
NOEC (28 days): 0.098 mg/L (fish)
LOEC (21 days): 1.2 mg/L (crustacea)
LOEL (72 hour): 1 mg/L (algae)

Persistence and degradability

Biodegradable

Bioaccumulative potential

The product has no potential for bioaccumulation.

Mobility in soil

Not available.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

T90001, T90104, T90104BK, T91000

By land: DOT Proper Shipping Name: None required per 49 CFR 173.150(b)(3) for products that conform to the limited quantity provisions. Commodity shipping description: Lubricant, NOI

T95000, T90055

By land: DOT Proper Shipping Name: UN1993, FLAMMABLE LIQUID, n.o.s., (Petroleum distillates), 3, III

All

By Water: DOT Proper Shipping Name: UN1993, FLAMMABLE LIQUID, n.o.s., (Petroleum distillates), 3, III

By Air: DOT Proper Shipping Name: UN1993, FLAMMABLE LIQUID, n.o.s., (Petroleum distillates), 3, III

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories: See SECTION 2: HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

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SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	----	----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: November 5, 2024

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H226: Flammable liquid.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

Training advice: None.

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