

Safety Data Sheet

according to 1907/2006/EC

Printing date: 03 December 2018

Revision: 03 December 2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: **Boeshield T-9® (Aerosol)**

· Article number: L-11911

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

· Application of the substance / the mixture: Protective coating

· Uses advised against: No further relevant information available.

· 1.3 Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

PMS Products, Inc.

76 Veterans Drive, STE 110

Holland, MI 49423

Phone: (616) 355-6615

· 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America)

+1 (813)248-0585 (International)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Aerosol 2 H223-H229 Flammable aerosol. Pressurised container: May burst if heated.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS02 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

Distillates (petroleum), hydrotreated light

Naphtha (petroleum), hydrotreated heavy

distillates (petroleum), hydrotreated heavy naphthenic

· Hazard statements

H223-H229 Flammable aerosol. Pressurised container: May burst if heated.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Components:

CAS: 64742-47-8 EINECS: 265-149-8 Index number: 649-422-00-2 Reg.nr.: 01-2119484819-18-XXXX	Distillates (petroleum), hydrotreated light ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304	40-50%
CAS: 64742-48-9 EINECS: 265-150-3 Index number: 649-327-00-6 Reg.nr.: 01-2119486659-16-XXXX	Naphtha (petroleum), hydrotreated heavy ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304	20-30%
CAS: 64742-52-5 EINECS: 265-155-0 Index number: 649-465-00-7 Reg.nr.: 01-2119467170-45-XXXX	distillates (petroleum), hydrotreated heavy naphthenic ⚠ Asp. Tox. 1, H304	10-15%
CAS: 124-38-9 EINECS: 204-696-9 Reg.nr.: 01-2119457610-43-XXXX	Carbon dioxide ⚠ Press. Gas L, H280	1-5%
CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-XXXX	Sulfonic acids sodium salts ⚠ Eye Irrit. 2, H319	1-5%

· Additional information:

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This product meets these requirements.
For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

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Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

A person vomiting while lying on their back should be turned onto their side.

· **4.2 Most important symptoms and effects, both acute and delayed**

Breathing difficulty

Coughing

Slight irritant effect on eyes.

Slight irritant effect on skin and mucous membranes.

May cause gastro-intestinal irritation if ingested.

Nausea in case of ingestion.

· **Hazards:**

May be fatal if swallowed and enters airways.

Danger of pulmonary oedema.

Danger of impaired breathing.

Danger of pneumonia.

· **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

If necessary oxygen respiration treatment.

If swallowed or in case of vomiting, danger of entering the lungs.

Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Carbon dioxide

Fire-extinguishing powder

Foam

Water haze or fog

· **For safety reasons unsuitable extinguishing agents:** None.

· **5.2 Special hazards arising from the substance or mixture**

Danger of receptacles bursting because of high vapour pressure when heated.

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:**

Eliminate all ignition sources if safe to do so.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Cool endangered receptacles with water fog or haze.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Remove ignition sources.

Protect from heat

Ensure adequate ventilation

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

· 6.2 Environmental precautions

Avoid release to the environment.

Prevent from spreading (e.g. by damming-in or oil barriers).

· 6.3 Methods and material for containment and cleaning up

Allow to evaporate.

Absorb liquid components with non-combustible liquid-binding material.

Send for recovery or disposal in suitable receptacles.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Use only in well ventilated areas.

Do not pierce or burn, even after use.

Avoid splashes or spray in enclosed areas.

Avoid contact with the eyes and skin.

Avoid breathing mist/vapours/spray.

Handle with care.

· Information about fire - and explosion protection:

Flammable aerosol.

Do not spray onto a naked flame or any incandescent material.

Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Emergency cooling must be available in case of nearby fire.

· 7.2 Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

· Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

124-38-9 Carbon dioxide

IOELV (EU)	Long-term value: 9000 mg/m ³ , 5000 ppm
WEL (Great Britain)	Short-term value: 27400 mg/m ³ , 15000 ppm Long-term value: 9150 mg/m ³ , 5000 ppm
OEL (Ireland)	Short-term value: 27000 mg/m ³ , 15000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm IOELV

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.

· 8.2 Exposure controls

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Avoid breathing mist/vapours/spray.

· Respiratory protection:

Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves** Rubber gloves

· Eye protection:



Safety glasses

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment:**
No further relevant information available.
- **Risk management measures:** No further relevant information available.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance

Form: Aerosol

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· Colour:	Colourless
· Odour:	Like aromatic solvents
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/freezing point:	Not applicable, as aerosol.
· Initial boiling point and boiling range:	Not applicable, as aerosol.
· Flash point:	Not applicable, as aerosol.
· Flammability (solid, gas):	Flammable aerosol.
· Auto/Self-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Explosive properties:	Not determined.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Non-oxidising.
· Vapour pressure:	Not determined.
· Density:	
Relative density:	<1
Vapour density:	>1 (air=1)
Evaporation rate:	<1 (ether=1)
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
 Danger of receptacles bursting because of high vapour pressure when heated.
 Avoid extreme heat.
 Avoid open flame, ignition sources, contact with incompatible substances.
- **10.3 Possibility of hazardous reactions**
 Reacts with peroxides and other radical forming substances.
 Flammable aerosol.
 Reacts with oxidising agents.
 Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
 Danger of receptacles bursting because of high vapour pressure when heated.

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Toxic fumes may be released if heated above the decomposition point.

· **10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

· **10.5 Incompatible materials** Oxidisers

· **10.6 Hazardous decomposition products**

Under fire conditions only:

Carbon monoxide and carbon dioxide

Sulphur oxides (SO_x)

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

64742-47-8 Distillates (petroleum), hydrotreated light

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)

64742-52-5 distillates (petroleum), hydrotreated heavy naphthenic

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)

· **Primary irritant effect**

· **Skin corrosion/irritation:** Contact with rapidly expanding gas may cause burns or frostbite.

· **Serious eye damage/irritation:** Slight irritant effect on eyes.

· **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **Probable routes of exposure:**

Inhalation.

Eye contact.

Skin contact.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:** Based on available data, the classification criteria are not met.

· **Reproductive toxicity:** Based on available data, the classification criteria are not met.

· **STOT-single exposure:** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:**

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· **12.1 Toxicity**

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- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information:**
- **General notes:** Avoid release to the environment.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Contact waste processors for recycling information.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 UN-Number · DOT, ADR/RID/ADN, IMDG, IATA | <p style="text-align: right;">UN1950</p> |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · DOT · ADR/RID/ADN, IMDG · IATA | <p style="text-align: right;">Aerosols
AEROSOLS
Aerosols, flammable</p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · DOT | |
| <div style="display: flex; align-items: center; gap: 10px;">  <ul style="list-style-type: none"> · Class · Label </div> | <p style="text-align: right;">2
2.1</p> |

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· ADR/RID/ADN



· Class 2 5F
 · Label 2.1

· IMDG



· Class 2
 · Label 2.1

· IATA



· Class 2.1
 · Label 2.1

· 14.4 Packing group Aerosols are not assigned a packing group.

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Warning: Gases.

· EMS Number: F-D,S-U

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· DOT



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

· ADR/RID/ADN



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

· IMDG



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

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· IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients are listed.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Aerosol 2: Aerosols – Category 2

Press. Gas L: Gases under pressure – Liquefied gas

Flam. Liq. 3: Flammable liquids – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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Asp. Tox. 1: Aspiration hazard – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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