

# MATERIAL SAFETY DATA SHEET

Date: 11-19-2013

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **BOESHIELD T-9® AEROSOL**  
PRODUCT CODE: L-11911

MANUFACTURER'S NAME: PMS PRODUCTS, INC  
76 VETERANS DRIVE, STE #110  
HOLLAND, MI 49423

INFORMATION PHONE : 616-355-6615  
EMERGENCY PHONE : 800-424-9300 (CHEMTREC) 703-527-3887

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
PETROLEUM DISTILLATE OSHA PEL: 400 PPM, ACGIH TLV: 200 PPM	64742-47-8	.066	68 F	40
PETROLEUM DISTILLATE, ODORLESS MINERAL SPIRITS OSHA PEL: 200 PPM, ACGIH TLV: 200 PPM	64742-48-9	2	100 F	24
WHITE MINERAL OIL OSHA PEL: 5 MG/M3, ACGIH TLV: 5 MG/M3, : OIL MIST	8042-47-5	.00003	100 F	12
CARBON DIOXIDE OSHA PEL: 10000 PPM, ACGIH TLV: 5000 PPM	124-38-9	38650	60 F	3
NON-HAZARDOUS COMPONENTS				21

\*\*\* No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. \*\*\*

## SECTION 3 - HAZARDS IDENTIFICATION

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
RESPIRATORY IRRITATION, HEADACHE, NAUSEA, FATIGUE, DROWSINESS, IMPAIRED CO-ORDINATION.  
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
SKIN: CONTACT MAY DRY THE SKIN; PROLONGED CONTACT MAY CAUSE MODERATE IRRITATION.  
EYES: LIQUID OR VAPOR CAN CAUSE MODERATE TO SEVERE IRRITATION.  
SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
NOT EASILY ABSORBED. SOLVENT ACTION CAN DRY AND DEFAT THE SKIN CAUSING THE SKIN TO CRACK, LEADING TO DERMATITIS.  
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
NOT A LIKELY ROUTE OF EXPOSURE. IF SWALLOWED, SEEK IMMEDIATE MEDICAL ADVICE AND/OR ATTENTION.  
HEALTH HAZARDS (ACUTE AND CHRONIC)  
ACUTE: EYE IRRITANT. POSSIBLE SKIN IRRITANT.  
CHRONIC: NONE KNOWN.  
CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No  
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN.

## SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES  
INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF NEEDED. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.  
GET MEDICAL ATTENTION.  
SKIN: WIPE OFF WITH TOWEL. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.  
EYES: WASH IMMEDIATELY WITH LARGE VOLUMES OF FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 120 deg F (WITHOUT PROPELLANT) METHOD USED: ESTIMATED  
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .7 UPPER: 6.0  
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG  
SPECIAL FIREFIGHTING PROCEDURES  
WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD-UP AND EXPLOSION  
WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES PREFERRED. WEAR GOGGLES AND SELF-CONTAINED  
BREATHING APPARATUS.  
UNUSUAL FIRE AND EXPLOSION HAZARDS  
CLOSED CONTAINERS MAY EXPLODE FROM INTERNAL PRESSURE BUILD-UP WHEN EXPOSED TO EXTREME HEAT AND DISCHARGE  
CONTENTS. VAPOR ACCUMULATION CAN FLASH OR EXPLODE IF IGNITED. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE  
A HEALTH HAZARD. SYMPTOMS MAY NOT BE READILY APPARENT. OBTAIN MEDICAL ATTENTION.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. CLEAN UP AREA WITH ABSORBENT MATERIAL AND  
PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

## SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE AND USE IN COOL, DRY, WELL-VENTILATED AREAS. VAPORS MAY CAUSE FLASH FIRE. KEEP AWAY FROM HEAT, SPARKS AND FLAME. DO NOT STORE ABOVE 120 DEG F. DO NOT PUNCTURE OR INCINERATE (BURN) CANS. DO NOT STICK PIN, NAIL OR ANY OTHER SHARP OBJECT INTO OPENING ON TOP OF CAN. DO NOT SPRAY IN EYES. SEE PRODUCT LABEL FOR ADDITIONAL INFORMATION.

## SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

### PRECAUTIONS

USE WITH ADEQUATE VENTILATION. TO PREVENT VAPOR BUILD-UP, OPEN DOORS AND WINDOWS OR USE AN EXPLOSION-PROOF EXHAUST FAN TO ENSURE FRESH AIR EXCHANGE DURING AND AFTER USE. DO NOT BREATHE VAPOR, GAS OR SPRAY MIST. WHEN USING, DO NOT EAT, DRINK OR SMOKE. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WEAR PROTECTIVE EQUIPMENT. WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. EMPTY CONTAINERS RETAIN PRODUCT RESIDUES; FOLLOW LABEL WARNINGS EVEN AFTER CAN IS EMPTIED. DO NOT STORE IN BASEMENTS.

### RESPIRATORY PROTECTION

AVOID BREATHING VAPORS. USE WITH ADEQUATE VENTILATION EQUAL TO OUT OF DOORS. IN RESTRICTED AREAS, USE APPROVED CHEMICAL/ MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPOR. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATOR OR HOOD. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED FOR VAPOR CONCENTRATIONS ABOVE PEL/TLV LIMITS.

### VENTILATION

SUFFICIENT TO PREVENT INHALATION OF SOLVENT VAPORS. GENERAL DILUTION AND/OR LOCAL EXHAUST VENTILATION IN VOLUME OR PATTERN TO KEEP PEL/TLV OF MOST HAZARDOUS INGREDIENT BELOW ACCEPTABLE LIMIT AND LEL BELOW STATED LIMIT.

### PROTECTIVE GLOVES

SOLVENT RESISTANT GLOVES REQUIRED FOR PROLONGED OR REPEATED CONTACT.

### EYE PROTECTION

USE OF SAFETY GLASSES WITH SPLASH GUARDS OR FULL FACE SHIELD IS RECOMMENDED.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT

USE OF SOLVENT RESISTANT APRONS OR OTHER CLOTHING IS RECOMMENDED.

### WORK/HYGIENIC PRACTICES

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 315 deg F - 500 deg F

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 0.84

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER

SOLUBILITY IN WATER: NIL

VOC CONTENT: 24.5% BY WEIGHT

FLASH POINT: >100 deg F (WITHOUT PROPELLANT)

METHOD USED: ESTIMATED

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .7

UPPER: 6.0

APPEARANCE AND ODOR: AEROSOL PRODUCT (CALIFORNIA PROPOSAL 65 COMPLIANT)

## SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID

APPLICATION TO HOT SURFACES. STORAGE ABOVE 120 DEG F. EXPOSURE TO OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

MAY PRODUCE FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE AND OTHER TOXIC FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## SECTION 11 - TOXICOLOGICAL INFORMATION

LONG-TERM TOXICOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT.

## SECTION 12 - ECOLOGICAL INFORMATION

LONG-TERM ECOLOGICAL STUDIES HAVE NOT BEEN CONDUCTED FOR THIS PRODUCT.

## SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BEFORE ATTEMPTING CLEAN UP, REFER TO OTHER SECTIONS OF THIS MSDS FOR HAZARD CAUTION INFORMATION.

## SECTION 14 - TRANSPORT INFORMATION

BY LAND: SHIPPING NAME: LUBRICANTS, NOI

BY WATER: DOT PROPER SHIPPING NAME: UN 1950, Aerosols, 2.1, LTD QTY

BY AIR: DOT PROPER SHIPPING NAME: UN1950, Aerosols, flammable, 2.1, LTD QTY (Packing instruction Y203 applies)

## SECTION 15 - REGULATORY INFORMATION

ALL INGREDIENTS ARE EITHER LISTED ON THE TSCA INVENTORY OR ARE EXEMPT.

## SECTION 16 - OTHER INFORMATION

HMIS CODES: H-1 F-3 R-0 P-0

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NAME OF PREPARER: ESP

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