

MATERIAL SAFETY DATA SHEET

Date: 11-04-2011

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **BOESHIELD T-9® (LIQUID)**
 PRODUCT CODE: L-11912



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

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SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
PETROLEUM DISTILLATE, ODORLESS MINERAL SPIRITS OSHA PEL: 200 PPM, ACGIH TLV: 200 PPM	64742-48-9	2	100 F	40
PETROLEUM DISTILLATE OSHA PEL: 400 PPM, ACGIH TLV: 200 PPM	64742-47-8	.066	68 F	21
WHITE MINERAL OIL OSHA PEL: 5 MG/M3, ACGIH TLV: 5 MG/M3, : OIL MIST	8042-47-5	.00003	100 F	10
NON-HAZARDOUS COMPONENTS				29

*** 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 IRRITATION.
 EYES: LIQUID OR VAPOR CAN IRRITATE.
 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, DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ADVICE AND/OR ATTENTION.
 HEALTH HAZARDS (ACUTE AND CHRONIC)
 ACUTE: EYE IRRITANT, SKIN IRRITANT, NARCOTIC IN HIGH CONCENTRATIONS.
 CHRONIC: LIVER AND KIDNEY DISEASE, SKIN IRRITATION AND DERMATITIS.
 CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No
 MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: ACUTE AND CHRONIC LIVER AND KIDNEY DISEASE, ANEMIA.

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 METHOD USED: TCC
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .7 UPPER: 9.8
 EXTINGUISHING MEDIA: FOAM, ALCOHOL 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
 KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPOR ACCUMULATION CAN FLASH OR EXPLODE IF IGNITED. OVEREXPOSURE TO DECOMPOSITION.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 AVOID BREATHING VAPORS. VENTILATE AREA. DIKE AREA TO CONTAIN SPILL. 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. KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP AWAY FROM EXCESSIVE HEAT OR OPEN FLAME. VAPORS MAY IGNITE EXPLOSIVELY. VAPORS MAY SPREAD LONG DISTANCES. PREVENT BUILD-UP

OF VAPORS. EXTINGUISH ALL PILOT LIGHTS AND TURN OFF HEATERS, NON-EXPLOSION PROOF ELECTRICAL EQUIPMENT AND IGNITION SOURCES DURING USE.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

PRECAUTIONS

KEEP CLOSURE TIGHT AND CONTAINER UPRIGHT TO PREVENT LEAKAGE. OPEN CONTAINER SLOWLY. GROUND CONTAINERS WHEN FILLING OR EMPTYING. DO NOT GET IN EYES. AVOID SKIN CONTACT AND CONTACT WITH CLOTHING. DO NOT WELD OR FLAME-CUT AN EMPTY DRUM. DO NOT TAKE INTERNALLY. DO NOT TRANSFER CONTENTS TO UNLABELED CONTAINERS.

RESPIRATORY PROTECTION

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

SAFETY GLASSES WITH SPLASH GUARDS OR FULL FACE SHIELD.

SOLVENT RESISTANT APRON.

WORK/HYGIENIC PRACTICES

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 350 deg F - 611 deg F

SPECIFIC GRAVITY (H₂O=1): 0.83

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER

SOLUBILITY IN WATER: NIL

VOC CONTENT: 40.6% BY WEIGHT (CALIFORNIA PROP 65 COMPLIANT)

FLASH POINT: 120 deg F

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME-

LOWER: .7

UPPER: 9.8

APPEARANCE AND ODOR: COLORLESS LIQUID; TYPICAL SOLVENT ODOR.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: APPLICATION TO HOT SURFACES.

INCOMPATIBILITY (MATERIALS TO AVOID): UNKNOWN.

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: NOT REGULATED

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
(Packing instruction 309 applies)

SECTION 15 - REGULATORY INFORMATION

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

SECTION 16 - OTHER INFORMATION

HMS CODES: H-1 F-2 R-0 P-

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NAME OF PREPARER: ESP

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