

MATERIAL SAFETY DATA SHEET

THOMAS & BETTS, 8155 T&B BOULEVARD, MEMPHIS, TN 38125

T&B CATALOG NUMBER: 15-500-HO

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PRODUCT DESCRIPTION: RED INSULATING VARNISH (AEROSOL)

REVISION: 4 -

DATE PREPARED: JUNE 23, 1998

DOCUMENT NUMBER: MSDS0043

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: RED INSULATING VARNISH

GENERAL USE: FAST DRYING PROTECTIVE COATING FOR ELECTRONIC EQUIPMENT.

PRODUCT DESCRIPTION: RED INSULATING VARNISH (AEROSOL).

GENERIC INGREDIENTS:

24HR EMERGENCY TELEPHONE NUMBERS: CHEMTREC: 800-424-9300

FOR PRODUCT INFORMATION: THOMAS & BETTS: 901- 682-8221 (X8324)

SECTION 2 HAZARDOUS INGREDIENT SECTION

THIS PRODUCT IS HAZARDOUS AS DEFINED IN: 29 CFR1910.1200

OSHA HAZARDOUS INGREDIENTS

	CAS#	EXPOSURE LIMITS 8 HRS. TWA (MG/M ³)		WT. %
		OSHA PEL	ACGIH TLV	
ACETONE	67-64-1	750 PPM	750 PPM	29
*TOLUENE	108-88-3	200 PPM	100 PPM	13
AROMATIC PETROLEUM DISTILLATE	64742-94-5	N/E	N/E	5
PETROLEUM DISTILLATE, ODORLESS MINERAL SPIRITS	64742-48-9	200 PPM	200 PPM	2
MINERAL SPIRITS, STODDARD SOLVENT, PETRO. DISTIL.	8052-41-3	100 PPM	100 PPM	2
PETROLEUM DISTILLATE, VM&P NAPHTHA	64742-89-8	300 PPM	300 PPM	2
*XYLENE (MIXED ISOMERS)	1330-20-7	100 PPM	100 PPM	2
*2-BUTANONE, METHYL ETHYL KETONE	78-93-3	200 PPM	200 PPM	2
PROPANE	74-98-6	1000 PPM	ASPHYXIAN	18
BUTANE	106-97-8	800 PPM	800 PPM	7

* INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

SECTION 3 HEALTH INFORMATION & PROTECTION

HEALTH HAZARDS:

ACUTE:

EYE IRRITANT. SKIN IRRITANT. NARCOTIC IN HIGH CONCENTRATIONS. SEVERE OVEREXPOSURE MAY CAUSE DAMAGE TO THE BLOOD.

CHRONIC:

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM AND OTHER INTERNAL ORGAN DAMAGE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ACUTE AND CHRONIC LIVER AND KIDNEY DISEASE, ANEMIA, CORONARY DISEASE OR RHYTHM DISORDERS OF THE HEART.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

LIQUID OR VAPOR CAN CAUSE MODERATE TO SEVERE IRRITATION.

SKIN CONTACT:

CONTACT MAY DRY THE SKIN; PROLONGED CONTACT MAY CAUSE MODERATE IRRITATION. NOT EASILY ABSORBED. HOWEVER, SOLVENT ACTION CAN DRY AND DEFAT THE SKIN CAUSING THE SKIN TO CRACK,

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LEADING TO DERMATITIS.

INHALATION:

MAY CAUSE RESPIRATORY IRRITATION, HEADACHE, NAUSEA, FATIGUE, DROWSINESS, IMPAIRED CO-ORDINATION, CENTRAL NERVOUS SYSTEM DEPRESSION OR HEART ARRHYTHMIA.

INGESTION:

NOT A LIKELY ROUTE OF EXPOSURE.

FIRST AID MEASURES:

EYE CONTACT:

WASH IMMEDIATELY WITH LARGE VOLUMES OF FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT:

WIPE OFF WITH TOWEL. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION:

REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF NEEDED. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION.

INGESTION:

IF SWALLOWED, DO NOT INDUCE VOMITING. SEEK IMMEDIATE ADVICE AND/OR ATTENTION.

WORKPLACE EXPOSURE CONTROLS:

RESPIRATORY PROTECTION:

NONE UNDER NORMAL USE. AVOID BREATHING VAPORS. 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:

NONE UNDER NORMAL USE. SOLVENT RESISTANT REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION:

NONE UNDER NORMAL USE; HOWEVER, USE OF SAFETY GLASSES WITH SPLASH GUARDS OR FULL FACE SHIELD IS RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

NONE UNDER NORMAL USE; HOWEVER, USE OF SOLVENT RESISTANT APRONS OR OTHER CLOTHING IS RECOMMENDED.

WORK/HYGIENIC PRACTICES:

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

SECTION 4 FIRE & EXPLOSION HAZARDS

FLASH POINT: -156°F (EST.)

FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 0.7 UPPER: 13

EXTINGUISHING MEDIA: FOAM, CO², DRY CHEMICAL, WATER FOG.

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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.

SPECIAL FIRE FIGHTING 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 ARE PREFERRED. WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS.

SECTION 5 SPILL CONTROL MEASURES

SPILL RESPONSE:

AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. CLEAN UP AREA WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATION. BEFORE ATTEMPTING CLEAN UP, REFER TO OTHER SECTIONS OF THIS MSDS FOR HAZARD CAUTION INFORMATION.

SECTION 6 HANDLING & STORAGE

STORAGE TEMPERATURE, °F: DO NOT STORE ABOVE 120°F

GENERAL: STORE AND USE IN COOL, DRY, WELL VENTILATED AREAS. 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. DO NOT TAKE INTERNALLY. SEE PRODUCT LABEL FOR ADDITIONAL INFORMATION.

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

BOILING RANGE, °F:

-44°F THROUGH 350°F

EVAPORATION RATE:

SLOWER THAN ETHER

SOLUBILITY IN WATER:

SLIGHT

SPECIFIC GRAVITY (H₂O=1):

0.73

ODOR AND APPEARANCE:

AEROSOL PRODUCT

VAPOR DENSITY (AIR = 1):

HEAVIER THAN AIR

VAPOR PRESSURE, MM HG AT °F:

ACETONE	181	68
TOLUENE	10	81
AROMATIC PETRO.	0.5	68
PETRO. DISTL.	2	68
MINERAL SPIRITS	2.4	68
PETRO. DISTL., VM&P	10	68
XYLENE	25	77
2-BUTANONE	70	68
PROPANE	6350	68
BUTANE	1640	68

SECTION 8 REACTIVITY DATA

GENERAL: STABLE. HAZARDOUS POLYMERIZATION WILL NOT OCCUR. MAY PRODUCE FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: STRONG OXIDIZING AGENTS. APPLICATIONS TO HOT SURFACES. STORAGE ABOVE 120°F. EXPOSURE TO OPEN FLAME.

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SECTION 9 REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT) -

PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: N/A

LABEL: NONE

FLASH POINT: PROPELLANT: -156°F (ESTIMATED)

TSCA: ALL COMPONENTS ARE LISTED IN THE INVENTORY

WHMIS (CANADA): UNKNOWN

CERCLA: NOT APPLICABLE

RCRA HAZARD CLASS: IGNITABLE (D001)

R-PHASES: UNKNOWN

SARA TITLE III:

311/312 HAZARD CATEGORIES: ACUTE HEALTH, CHRONIC HEALTH, FIRE

313 REPORTABLE INGREDIENTS: TOLUENE, XYLENE, 2-BUTANONE

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

THIS PRODUCT CONTAINS: ACETONE (67-64-1), PROPANE (74-98-6), TOLUENE (108-88-3), BUTANE (106-97-8), AROMATIC PETROLEUM DISTILLATE (64742-94-5), PETROLEUM DISTILLATE (64742-48-9), MINERAL SPIRITS (8052-41-3), XYLENE (1330-20-7), 2-BUTANONE (78-93-3)

CALIFORNIA PROPOSITION 65 INFORMATION: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SCAQMD INFORMATION: NOT APPLICABLE

IS THERE A PHOTOCHEMICALLY REACTIVE MATERIAL PRESENT?

WHAT IS THE % BY VOLUME OF PHOTOCHEMICALLY REACTIVE MATERIAL?

WHAT IS THE VOC CONTENT?

WHAT IS THE VAPOR PRESSURE OF VOC'S?

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

	HMIS
HEALTH	2
FLAMMABILITY	4
REACTIVITY	0

KEY
4 = SEVERE
3 = SERIOUS
2 = MODERATE
1 = SLIGHT
0 = MINIMAL

REVISION SUMMARY:

NONE

SUPERSEDES ISSUE DATE:

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