

MSDS (Material Safety Data Sheet)

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EMERGENCY TELEPHONE NO.: 800-255-3924

INTERNATIONAL EMERGENCY ACCESS No.: +01 or +001-813-248-0585

PRODUCT NAME: **Thermashield®**

CHEMICAL FAMILY: Solvent based intumescent fire retardant coating.

SECTION I - PRODUCT INFORMATION

MANUFACTURER'S NAME: AVTEC INDUSTRIES, INC.

9 KANE INDUSTRIAL DRIVE

HUDSON, MA 01749 USA

TELEPHONE # FOR INFORMATION: 978-562-2300

SECTION II - HAZARDOUS COMPONENTS

<u>Ingredient</u>	<u>Exposure Limits</u>	<u>CAS No</u>	<u>Percent</u>	<u>Vapor Pressure</u>	<u>Toxicity Hazardous</u>
Toluene*	50PPM	108-88-3	3.00	22mmHg @20°C	Mod. Ingest. Inhal. skin
Methyl Ethyl Ketone*	200PPM	78-93-3	14.00	70mmHg @20°C	Narcotic by inhalation
Acetone*	750PPM	67-64-1	14.00	185mmHg@20°C	Moderate.

*This Material is subject to the reporting requirements of section 313 of the Emergency Planning and the Community Right To Know Act of 1985 and of 40CFR 372.

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR: opaque, white-colored, coating with Ketone odor.

MOLECULAR WEIGHT: Not Applicable.

BOILING RANGE: (DEGREES FAHRENHEIT): 132- 288 - Not accurate: mixture of components.

MELTING POINT: (DEGREES FAHRENHEIT): Not Applicable.

VAPOR DENSITY: Heavier than air.

SPECIFIC GRAVITY (WATER=1): 1.27

VAPOR DENSITY (AIR=1): Heavier Then Air

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: (BUTYL ACETATE=1): Slower than Ether

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: 7°C

Boiling Point: 132 - 288°F

FIRE EXTINGUISHING MEDIA: CO2, Dry Chemical Water Fog.

EXPLOSIVE LIMITS (PERCENT BY VOLUME): None determined

SPECIAL FIRE FIGHTING PROCEDURES AND EQUIPMENT: Do not use a direct stream of water. Product may float and can be reignited on the surface of the water. Do not enter a confined area without full bunker gear including a positive pressure NOSH approved self-contained breathing apparatus. Decomposition products may form toxic materials.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Never use welding of cutting torch on or near drum (even empty) because of residue or product can ignite explosively. Vapors are Heavier then air and may travel along the ground or be moved by ventilation and ignited by pilot lights, flames and other ignition sources at locations distant from the material handling point.

HAZARDOUS COMBUSTION PRODUCTS: Combustion products can include water, carbon dioxide, carbon monoxide, and traces of ammonia.

SECTION V - REACTIVITY DATA

STABILITY: STABLE X UNSTABLE _____

CONDITIONS TO AVOID: Heat and fires. Ignition sources ,Storage of containers in places of excessive heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong alkalines or strong oxidizers. This material may dissolve some plastics, rubber compounds, or coatings. May react .

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride and very small amounts of phosgene and chlorine

HAZARDOUS POLYMERIZATION: Will Occur _____ Will Not Occur X

SECTION VI - HEALTH HAZARD INFORMATION

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Breathing vapor may irritate the nose and throat. Central nervous system effects including excitation, euphoria, contracted eye pupil, dizziness, blurred vision, fatigue, nausea, headache, loss of consciousness, respiratory unrest, and sudden death could occur of long term and/or high concentration exposures vapors.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: contact with the skin or eyes may cause irritation. Prolonged or repeated contact can cause moderate irritation, defaulting and/or dermatitis

. Skin and eyes should be flushed with water for at least 15 minutes

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE: Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.

HEALTH HAZARDS (ACUTE AND CHRONIC): Overexposure may cause anesthesis, headache, nausea or dizziness. Breathing the vapors may irritate the nose and throat. Detectable amounts of chemicals or substances known to the state of Massachusetts to cause cancer, birth defects, or other reproductive harm may be found in this product. Use care when handling chemical and petroleum products even though they are water reducible.

CARCINOGENICITY: NTP CARCINOGEN: N/A IARC MONOGRAPHS: N/A OSHA REGULATED: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE TO THIS PRODUCT: Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.

EMERGENCY AND FIRST AID PROCEDURES: Remove victim to fresh air and restore breathing if required. Call a physician if required. If breathing stops give artificial respiration. Keep person warm. Never give anything by mouth to an unconscious person. Do not induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Vapors irritate the nose and throat.

SECTION VII - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTION EQUIPMENT

PROTECTIVE GLOVES: Wear impervious gloves as necessary to avoid excessive skin contact: i.e. rubber or neoprene.

EYE PROTECTION: Protective glasses or goggles in heavy mist areas.

RESPIRATORY PROTECTION (SPECIFY TYPE): Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use air purifying and particle collecting respirator.

OTHER PROTECTIVE EQUIPMENT: Avoid contact with eyes. Wear eye protection devices, Adequate clothing and gloves to minimize direct contact with skin.

VENTILATION: Use explosion proof ventilation as required to control particulate and any minor vapor concentrations. A spray booth is recommended

WORK/HYGIENIC PRACTICES: Wash hands with soap and water before eating. Dispose of contaminated clothing as soon as possible.

SECTION VIII - SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Flush with water in a tank or to an opened well-ventilated area. Absorb or remove to container and dispose of properly in conformity with local government restrictions.

WASTE DISPOSAL METHOD: Incinerate if permitted or bury in a sanctioned landfill. Consult a disposal expert. Dispose of in accordance with all local, state and federal laws. For highway or road spill, contact (800) 424-9300

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers in cool dry isolated, well ventilated area away from heat or flames, sources of ignition and incompatible materials. Transfer small amounts left over into small containers. Ground containers and other equipment during product transfer. Do not store in glass containers due to the danger of breaking. Do not pour into containers that held highly flammable materials, static electricity may result, use good hygiene practices. Wash hands before eating, drinking, etc.

OTHER PRECAUTIONS AND COMMENTS: Keep containers tightly closed. Replace all bungs tightly before shipping or storing. Avoid contact with amines.

SECTION IX - REGULATORY INFORMATION

FDA: No applicable information found.

USDA: No applicable information found.

CPSC: No applicable information found.

TSCA: No applicable information found

DOT:

Domestic (Land, D.O.T.)

PROPER SHIPPING NAME: Paint

HAZARDOUS CLASS 3

UN/NA: UN1263

PACKING GROUP: II

International (Water, I.M.O.)

PROPER SHIPPING NAME: Paint

HAZARDOUS CLASS: 3.2

UN/NA: UN1263

PACKING GROUP: II

LABEL REQUIRED: FLAMMABLE – Red Label

IDENTIFICATION NUMBER: Not applicable.

WARNING: This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

SECTION X - SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from eyes. Do not ingest. Avoid prolonged contact with skin. Wash exposed skin with soap and water. Avoid breathing of mist.

REGISTRATION/CERTIFICATIONS: Not applicable.

EFFECTIVE DATE: October 20, 2008

SUPERSEDES: February 4, 2007

SECTION XI- DISCLAIMER

Above information is based on data supplied to us and to believed to be correct. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information. We do not claim responsibility result of its use. This information is furnished upon the condition that the person receiving it shall

make his own determination of the ability of the material for his particular purpose. It is the user's obligation to determine the safe use of it.

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