

Material Safety Data Sheet (MSDS)

Pg. 1 of 3

EMERGENCY TELEPHONE NO.: 800-255-3924

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

PRODUCT NAME: **FR Eco-Additive 30™**

CHEMICAL FAMILY: Intumescent Fire Retardant Additive.

SECTION I - PRODUCT INFORMATION

MANUFACTURER'S NAME: *AVTEC INDUSTRIES, INC.*

9 KANE INDUSTRIAL DRIVE

HUDSON, MA 01749-2905 USA

TELEPHONE # FOR INFORMATION: 978-562-2300

SECTION II - HAZARDOUS COMPONENTS

<u>Component</u>	<u>CAS No.</u>	<u>Percent by Wt.</u>	<u>Exposure Limits</u>
Fire retarding additive mixture	None	100	Not established

This product has not been shown to have adverse effects in years of manufacture and use.

Graphite intercalation compound	72208-04-9	30.0
Crystalline Silica *	14808-60-7	6.65-7.85
Sulfuric Acid residue	7664-93-9	0.02-0.08
Nitric Acid residue	7697-37-2	0.0-0.6

* Composition particulate is coated with high viscosity organic liquids including paraffin. Does not contain free silica. However, do not breathe dust that may disperse during processing and follow OSHA standards for crystalline silica (Quartz) as stated in 29 CFR 1910. Z-1-A, Air Contaminates. There is evidence that inhaled crystalline silica is a human carcinogen. Contact Avtec Industries for additional or supplemental information.

NOTE: No Additional Hazardous Components as defined by OSHA 29 CFR 1910.1200.

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Gray. Granular powder. Possible slight acidic odor.

MOLECULAR WEIGHT: Not Applicable.

BOILING POINT: (DEGREES FAHRENHEIT): Not Applicable.

MELTING POINT: (DEGREES FAHRENHEIT): Not Applicable.

VAPOR PRESSURE: (mm of Mercury): Not Determined

SPECIFIC GRAVITY (WATER=1): Not Determined

VAPOR DENSITY (AIR=1): Not Applicable

PERCENT VOLATILE: (BY WEIGHT): Not Determined

pH: (Not Applicable)

SOLUBILITY IN WATER: Trace amount if any.
EVAPORATION RATE: (BUTYL ACETATE=1): Undetermined

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: None

FIRE EXTINGUISHING MEDIA: Non-combustible. Water, fog, foam, dry chemicals, or CO₂ may be used to combat fire of substrate. Water may be used to flush spills away from material in surrounding fire and to dilute spills, quench heat and render fire to substrate less aggressive.

EXPLOSIVE LIMITS (PERCENT BY VOLUME): None determined

SPECIAL FIRE FIGHTING PROCEDURES AND EQUIPMENT: Mixture is non-flammable. Use protective clothing and self contained breathing apparatus with face shield to combat any fire generated from substrate.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None determined.

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: Storage of containers in places of excessive heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: May produce carbon monoxide, carbon dioxide, and mixed nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will Occur _____ Will Not Occur X

SECTION VI - HEALTH HAZARD INFORMATION

EXPOSURE FROM ROUTINE USE: No evidence of adverse effects from available information.

EFFECTS OF OVEREXPOSURE: EYES. . . Direct contact or prolonged exposure may cause redness and pain.

NOSE. . . May cause irritation in the upper respiratory tract. Symptoms of overexposure may include headache and/or dizziness. MOUTH. . . Ingestion may cause abdominal spasms and other symptoms that parallel

overexposure from inhalation. SKIN. . . Prolonged contact may cause reddening of effected area.

PROBABLE ROUTES OF EXPOSURE: Skin, eyes, inhalation, and ingestion.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Immediately flush eyes with water for at least 15 min. including underneath eyelids. Consult a physician immediately.

INHALATION: Remove to fresh air immediately. Use adequate ventilation. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

INGESTION: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

SKIN: In case of contact, immediately flush skin with plenty of soap and water.

CARCINOGENICITY: There is evidence that inhaled crystalline silica (quartz) is a human carcinogen per IARC Monograph 68, 1997. IARC Classification Group 1. Contact Avtec for threshold limit values and PEL's.

SILICA Listed as Carcinogen by: NTP? Yes. IARC? Yes OSHA? Yes

SECTION VII - TOXICITY DATA

ORAL: Practically Nontoxic from constituents.

DERMAL: Expect no more than slightly toxic (rabbit LD50->3,160 mg/kg).

OTHER PERTINENT DATA: Not Available.

SECTION VIII - 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 with side shields.

RESPIRATORY PROTECTION (SPECIFY TYPE): For heavy exposure use a NIOSH/MSHA approved respirator suitable for use with organic vapors if proper ventilation can not be provided.

OTHER PROTECTIVE EQUIPMENT: Adequate clothing to minimize direct contact with skin.

VENTILATION

LOCAL EXHAUST: Use exhaust fans if necessary to control airborne particulate.

MECHANICAL (GENERAL): Normal room ventilation of fans.

SPECIAL: Not applicable.

SECTION IX - SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Confine spilled material and absorb on sand, sawdust, earth or other available solids. Sweep and place in a suitable container.

WASTE DISPOSAL METHODS: This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR261. Dispose in a suitable land fill where permitted by appropriate government regulations.

SECTION X - REGULATORY INFORMATION

FDA: No applicable information found.

USDA: No applicable information found.

CPSC: No applicable information found.

TSCA: All components listed

DOT: For domestic transportation purposes, this product is not designated as hazardous material by the U.S. Department of Transportation. Standard labeling and MSDS regulations apply.

LABEL REQUIRED: No special provisions.

IDENTIFICATION NUMBER: Not applicable.

WARNING: No special warnings required.

SECTION XI - 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 airborne particulate.

OTHER PRECAUTIONS: Not applicable.

REGISTRATION/CERTIFICATIONS: Not applicable.

EFFECTIVE DATE: October 20, 2008

SUPERSEDES: June 13, 2007

ADDRESS:

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