

MATERIAL SAFETY DATA SHEET



FLAME TECH INC.

Flame Tech Putty Pad

Intumescent Putty

Revision 1

Prepared 2011-02-14

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Flame Tech Putty Pad

Product Codes: FT00732

Synonyms: Firestopping sealant

General Use: Sealant

Manufacturer

EverKem Diversified Products
5180 Indiana Avenue
Winston-Salem, NC 27106 USA

Telephone Number for Information

+1-800-638-3160

Emergency Telephone Number

+1-800-638-3160

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Red, heavy bodied paste; mild odor. May be irritating to skin, eyes and respiratory system.

OSHA/HCS Status: This material contains no "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (28 CFR 1910.1200).

EEC LABELING AND RISK PHRASES Xi, R36/37/38, R41

EXPECTED ROUTES OF EXPOSURE

EYE CONTACT SKIN INHALATION

EFFECTS OF OVEREXPOSURE

EYES: Direct contact may cause mild irritation.

SKIN: May cause mild irritation.

INHALATION: Material is not likely to present an inhalation hazard at ambient conditions.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES/SKIN: No known applicable information. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

INHALATION: No known applicable information. Excessive exposure may cause irritation to the upper and lower respiratory system.

ORAL: No known applicable information. May cause possible irritation to mucous membranes of the mouth, throat and stomach if ingested.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Persons with pre-existing skin conditions or chemical allergies may be more susceptible to the contact effects of the cured elastomer.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	Ingredient	CAS Number	EC Number	EC Classification
NA	Triazine triamine phosphate	41583-09-9	255-449-7	
NA	Calcium borate	12007-56-6	234-511-7	Xi, R36/37/38
NA	Ammonium polyphosphate	68333-79-9	269-789-9	Xi, R36/37/38
NA	Isodecyl diphenyl phosphate	29761-21-5	249-828-6	Xi, R36/37/38

SECTION 4 - FIRST AID MEASURES

INHALATION: If product vapors cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

EYES: Immediately flush eyes with lukewarm water for 15 - 20 minutes while holding the eyelid(s) open. If contact lens is present, DO NOT delay irrigation or attempt to remove lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

SKIN: Remove contaminated clothing, shoes and leather goods. Quickly and gently blot or wipe away excess chemical. Flush with lukewarm flowing water for 15 minutes. If irritation persists, repeat flushing. If irritation persists, obtain medical advice.

INGESTION: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
Not applicable	N.A.	N.A.	Not determined

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water fog.

SPECIAL FIRE AND EXPLOSION HAZARDS

Closed containers may rupture or explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition. Ventilate the area.

SMALL & LARGE SPILLS: Wipe or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases.

SECTION 7 - HANDLING AND STORAGE

HANDLING PRECAUTIONS: Wear all appropriate protective equipment as specified in Section 8. Keep containers closed when not in use. Use with adequate ventilation. Do not store below 40 degrees F (4 - 5 degrees C) to prevent freezing and possible rupture of container. Avoid contact with eyes and skin. Avoid breathing vapor. Do not take internally.

STORAGE CATEGORY: Not applicable

STORAGE PRECAUTIONS: Keep in cool, dry, ventilated storage areas in closed containers. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Keep out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

CAS Number	Ingredient	OSHA PEL	ACGIH TLV
14582-09-9	Triazine triamine phosphate	NE	
12007-56-6	Calcium borate	15 mg/m3 TWA total dust 5 mg/m3 TWA respirable dust	5 mg/m3 as dust
68333-79-9	Ammonium polyphosphate	NE	
29761-21-5	Isodecyl diphenyl phosphate	NE	

OCCUPATIONAL EXPOSURE LIMITS Data not available.

ENGINEERING CONTROLS: Use adequate ventilation. Local exhaust is preferable. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

PROTECTIVE EQUIPMENT: Wear protective clothing to prevent repeated or prolonged contact with product.

RESPIRATORY PROTECTION: Avoid breathing vapor. Respiratory protection is not needed under ambient conditions with adequate local exhaust. Always use a NIOSH/MESA approved respirator when vapor concentration exceeds applicable concentration limits.

EYE PROTECTION: Wear protective goggles or safety glasses with side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

HAND PROTECTION: Neoprene rubber gloves, nitrile gloves or those recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable. Breakthrough time of selected gloves must be greater than the intended use period.

WORK/HYGIENIC PRACTICES: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Practice safe workplace habits. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Red paste	pH	Not determined
ODOR	Mild odor	VOLATILE VOLUME	Not determined
DENSITY	1.48 g/ml (12.35 lb/gal)	EVAPORATION RATE	Not determined
SPECIFIC GRAVITY	1.48	VAPOR DENSITY	Not determined
BOILING POINT	Not determined	SOLUBILITY IN WATER	Insoluble
MELTING POINT	Not determined		

VOLATILE ORGANIC COMPOUNDS (VOC) 1% or 10 g/L

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Contact with incompatible materials and exposure to extreme temperatures.
Incompatibility (Materials to Avoid):	None known.
Hazardous Decomposition Products:	Thermal decomposition products include carbon oxides and fragmented hydrocarbons.
Hazardous Polymerization:	Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICOLOGY DATA

This product contains the following components which in their pure form have the following characteristics. No listing made if data is unavailable.

CAS No.	Ingredient Name	Test & Species	Result
12007-56-6	Calcium borate	Oral LD50 Rat Skin Irritation Rabbit Eye Irritation Rabbit	6,450 mg/kg Moderate skin irritation - 24 h Severe eye irritation - 24 h
68333-79-9	Ammonium polyphosphate	Oral LD50 Rat Dermal LD50 Rat	>2,000 mg/kg >5,000 mg/kg
29761-21-5	Isodecyl diphenyl phosphate	Oral LD50 Rat Dermal LD50 Rabbit	>5,000 mg/kg 7,900 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

This product contains the following components which in their pure form have the following characteristics. No listing made if data is unavailable.

Data for Component: Ammonium polyphosphate

Environmental Effects: Release into waterways can cause over nitrification and algae blooms.

Environmental Fate and Transport: No data available

Data for Component: Ammonium polyphosphate

Aquatic Ecotoxicity

Acute and prolonged toxicity to fish: LC50 - Oncorhynchus mykiss (Rainbow trout), 96 d: 123,000 ug/L

Data for Component: Isodecyl diphenyl phosphate

Environmental Effects: Readily biodegradable; 63% degraded after 28 days.

Environmental Fate and Transport: No data available

Data for Component: Isodecyl diphenyl phosphate

Aquatic Ecotoxicity

Acute and prolonged toxicity to fish: LC50 - Oncorhynchus mykiss (Rainbow trout), 96 h: 7.6 mg/L
LC50 - Pimephales promelas (Fathead minnow), 96 h: 18 mg/L

Acute toxicity to aquatic invertebrates: EC50 - Midge, 24 h: 0.61 mg/L

Acute toxicity to aquatic plants: LC50 - Algae, 96 h: 71 mg/L (based on chlorophyll concentration)
LC50 - Algae, 96 h: 79 mg/L (based on cell number)

SECTION 13 - DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized whenever possible. Although this product is classified as non-hazardous under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261 this material and its container should be disposed of in a safe way as empty containers may contain product residue. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial and Local laws and regulations.

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

DOT, Ground USA: Not regulated for transportation
UN TGD, Canada: Not regulated for transportation
IMO/IMDG: Not regulated for transportation
ICAO/IATA: Not regulated for transportation

Signal Word: None
Hazard Symbols: Xi - Irritant
Marine Pollutant: This product is not a marine pollutant.

U. S. FEDERAL REGULATIONS

OSHA Hazard Communication Standard: None of the components of this material are listed as "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (28 CFR 1910.1200).

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory.

Superfund Amendments and Reauthorization Act (SARA)**SARA Section 311/312 Hazard Categories:**

Reactive hazard: No **Pressure hazard:** No **Fire hazard:** No **Immediate/acute:** No **Delayed/chronic:** No

SARA 313 Information: No components of this material are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304/311/312 Extremely Hazardous Substance:

No components of the product are subject to the reporting requirements of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification:

No components of the product are subject to the reporting requirements of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): None of the components of this product are listed.

Clean Air Act (CAA): No data available.

Clean Water Act (CWA): No data available.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: No data available.

Other U.S. State Inventories: No data available.

CANADA

WHMIS Hazard Symbol and Classification: No data available.

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Domestic Substances List / Non-Domestic Substances List (DS/NDSL):

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

Canadian Ingredient Disclosure List (IDL): Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

EUROPEAN ECONOMIC COMMUNITY

EUROPEAN COMMUNITY REGULATORY: All intentional ingredients are listed on the European EINECS Inventory.

EEC LABEL SYMBOL AND CLASSIFICATION:**EEC RISK PHRASES**

R36/37/38 Irritating to eyes, respiratory system and skin.

EEC SAFETY PHRASES

S2 Keep out of reach of children.

S24/25 Avoid contact with skin and eyes.

EEC LABEL SYMBOL(S):



"Xi" - Irritant

LABEL SYMBOL(S):



Irritant

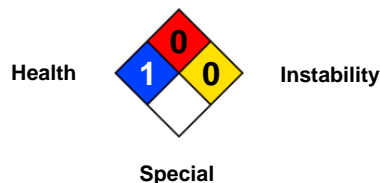
SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

HMIS HAZARD RATING Legend

* = Chronic Health Hazard 2 = MODERATE
 0 = INSIGNIFICANT 3 = HIGH
 1 = SLIGHT 4 = EXTREME

National Fire Protection Association (NFPA)**Flammability**

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.