International Fireproof Technology Inc.
The Ultimate in Firestop Solutions and Fire Protective Coatings
www.painttoprotect.com
949-975-8588

Safety Data Sheet – Putty Pad

1. Product and Company Identification

Product : Putty Pad
Company : International Fireproof Technology, Inc.
17528 Von Karman Ave. Irvine, CA 92614

Office: 949-975-8588
Emergency Telephone Number: CHEMTREC 1-800-424-9300

2. Hazards Identification

Hazard classification : Hazardous to the aquatic environment, Acute toxicity (Oral) Cat.4, Skin irritation Cat.3, Eye irritation Cat. 2B; Carcinogenicity Cat.1

Pictogram :

Signal words : Danger

Hazard statement : Harmful if swallowed;
Toxic to aquatic life with long lasting effects;
May cause slight skin irritation.
May cause slight eyes irritation.
May cause cancer.

Precautionary statement：

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. **Do not release to aquatic**

environment.

Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Storage : Store locked up.

Disposal： Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements ：

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Hazards not otherwise classified：None known.

3. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Triphenyl phosphate	115-86-6	5~15
Red phosphorous	7723-14-0	<2
Pentaerythritol	115-77-5	1~5
Silica	14464-46-1	1~10
Zinc borate	138265-88-0	5~15
Petroleum distillates	64742-53-6	5~15

4. First Aid Measures

Inhalation : Remove to fresh air. If breathing is difficult, give oxygen and seek medical attention.

Ingestion : Do NOT induce vomiting. Rinse mouth out with water and seek medical attention immediately. Never give anything by mouth to an unconscious person.

Skin Contact : Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact : Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

Potential acute health effects：

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure

Ingestion : May be irritating to mouth, throat and stomach.

Skin contact : No known significant effects or critical hazards.

Eye contact : Causes eye irritation.

5. Fire Fighting Measures

Suitable extinguishing media :	Use an extinguishing agent suitable for the surrounding fire.
Specific hazards arising from the chemical :	N/A
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides
Special protective actions for fire-fighters:	No special protective actions for fire-fighters are anticipated.
Special protective equipment for fire-fighters:	In the event of a fire, wear full protective clothing and NIOSH-approved (or equivalent) self-contained breathing apparatus with full face piece operated in the pressure demand or positive.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency Personnel：	Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.
For emergency responders :	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions:	**Avoid release to the aquatic environment.**

Methods and materials for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container.

7. Handling and Storage

Handling: Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Storage: Store in tightly, closed container and keep in the dry area，10-35℃, keep off heat, sparks, fire and freezing temperature.

8. Exposure Controls / Personal Protection

Ingredient	Regulatory Code	Classification
Silica	OSHA (United States)	TWA: 0.8 mg/m³
		TWA: 20 millions of particles/cu. ft.
Petroleum distillates	Manufacturer determined	TWA: 5 mg/m³ 8 hours.
		STEL: 10 mg/m³
Pentaerythritol	NIOSH PEL (United States, 10/2013)	TWA: 5 mg/m³ 10 hours. Form: Respirable fraction TWA: 10 mg/m³ 10 hours. Form: Total dust
	ACGIH TLV (United States, 4/2014)	TWA: 10 mg/m³ 8 hours.
	OSHA PEL (United States, 2/2013)	TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
Zinc Borate	ACGIH TLV: (United States)	TWA: 10 mg/m3
	Cal OSHA PEL(United States)	TWA: 10 mg/m3
	OSHA PEL(United States)	TWA: 15 mg/m3 Form: total dust TWA: 5 mglm3 Form: respirable fraction

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

NIOSH: National Institute for Occupational Safety and Health

ACGIH: American Conference of Governmental Industrial Hygienists

TLV: Threshold Limit Value

Appropriate engineering controls: Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If

ventilation is not adequate, use respiratory protection equipment.

Environmental exposure controls: —

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Indirect Vented Goggles

Skin protection

Hand protection: Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended: Neoprene, Nitrile Rubber, Natural Rubber

Body protection: If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Neoprene, Apron – Nitrile

Other skin protection: —

Respiratory protection: An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates.

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9. Physical and Chemical Properties

Appearance: Solid putty, black Odors : Slight rubber odor

Odor threshold：—
pH value : N/A
Flammability : Non-flammable
Decomposition temperature : —
Auto-ignition temperature：—
Vapor pressure at 20℃ : —
Density : 1.3-1.4 g/cm^3 (25℃)
Partition coefficient n-octanol/water：—

Melting point：—
Boiling point/boiling Range：N/A
Flash point & method：>140℃
Used : open cup
Explosion limits：N/A
Vapor density：—
Solubility：Not soluble in water
Evaporation rate：—

10. Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Special Condition of Hazardous Reaction	N/A
Incompatibilities:	—
Conditions to Avoid：	Flames, freezing temperatures
Materials to Avoid	Strong acid or alkali and oxidant
Hazardous decomposition products	Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, phosphorous oxides, phenyl-phosphoric ester and smoke.
Hazardous Polymerization :	—

11. Toxicological Information

Acute toxicity

Ingredient name	Result	Species	Dose	Exposure
Triphenyl phosphate	LD50 Oral	Rat	>5000 mg/kg	---
	LD50 Dermal	Rat	>2000mg/kg	
Pentaerythritol	LD50 Oral	Rat	18500 mg/kg	---
Silica	LD50 Dermal	Rabbit	>5000mg/kg	
	LD50 Oral	Rat	>5110mg/kg	
	LC50 Inhalation	Rat	>0.691mg/L	Dust/Mist
Zinc borate	LD50 Dermal	Rabbit	>10000mg/kg	
	LD50 Oral	Rat	>10000mg/kg	
Petroleum distillates	LD50 Oral	Rat	>5000mg/kg	
	LD50 Dermal	Rat	>5000mg/kg	
	LC50 Inhalation	Rat	>5mg/L	

Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
Silica	Skin: No significant	Rabbit	---	---	---
	Eye: No significant	Rabbit	---	---	---
Pentaerythritol	Skin : Mild irritant	Human	---	72 hours 300 Micrograms Intermittent	---
Zinc Borate	Skin : Slight irritant	Rabbit	---	---	---
	Eye : Slight irritant	Rabbit	---	---	---

Classification

Ingredient name	OSHA	IARC	NTP
Silica	---	1	---
Pentaerythritol	---	2B	---
Petroleum distillates	---	3	---

Specific target organ toxicity (single exposure)

Ingredient name	Category	Route of exposure	Target organs
Pentaerythritol	Category 3	Not applicable	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Ingredient name	Category	Route of exposure	Target organs
Pentaerythritol	Category 2	Not determined	Respiratory tract irritation and Narcotic effects
Silica	---	Inhalation	respiratory system, silicosis

12. Ecological Information

Toxicity

Ingredient name	Result	Species	Exposure
Triphenyl phosphate	Acute EC50 >100ppm	Algae	96 hours
	Acute EC50 >100ppm	Daphnia magna	48 hours
	LC-50 > 500 mg/L	Orange fish	48 hours
Pentaerythritol	Acute LC50 >1000000	Fish – Fundulus	96 hours

	μg/l Marine water	heteroclitus	
Zinc borate	LC50 = 2.4 mg/L	Rainbow trout	96 hours
	LC50 > 335 mg/L	Bluegill	96 hours
	LC50 = 76 mg/L	Daphnia magna straus	48 hours

Bioaccumulative potential：

Ingredient name	LogPow	BCF	Potential
Triphenyl phosphate	4.6	110-144	high
Pentaerythritol	---	1.26	low

Mobility in soil：—

other adverse effect：—

13. Disposal Considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name					
Transport hazard class(es)					
Packing group					
Environmental hazards	YES	No	No	No	No
Additional information	Special provisions Not Applicable	Special provisions Not Applicable	Special provisions Not Applicable	Special provisions Not Applicable	Special provisions Not Applicable

Special precautions for user:	Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. Regulatory Information

Ingredient name	Regulatory Code	Classification
Petroleum distillates	IARG1 WMPR	IARC - Group 1 - Carcinogenic to Humans List of WM Priority Chemicals Feb 2014
Pentaerythritol	WHMHAZ	WHMIS - Canada Hazardous Chemicals
Silica	IARG1 WHMHAZ WMPR	IARC-Group 1- Carcinogenic to Humans WHMIS - Canada Hazardous Chemicals List of WM Priority Chemicals Feb 2014
Red phosphorus	CAWAST S313T SAREHS WHMHAZ WMPR	California Hazardous Waste SARA313-Emissions Reporting CERCLA/SARA Extremely Hazardous Substances WHMIS - Canada Hazardous Chemicals List of WM Priority Chemicals Feb 2014
Zinc Borate	CAWAST S313T	California Hazardous Waste SARA313-Emissions Reporting
Triphenyl phosphate	DSMP WHMHAZ	DOT Severe Marine pollutant WHMIS - Canada Hazardous Chemicals

16. Other Information

The information contained in this data sheet pertains to this product as it is currently formulated, and is based on present scientific and technical knowledge. This information is provided without warranty of any kind and should not, therefore, be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety andhealth of employees

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