



FX FlameGuard

Distributed by
RDR Technologies
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SUBMITTAL SHEET

Interior / Exterior (Limited) porous / non porous:

Lumber, Plywood, Drywall, OSB, MDF, Thatching, Wicker, Paneling, Bamboo and most Painted or Stained Surfaces.

**Testing & Standards: Accredited Third Party Testing Laboratories.
ASTM E84 & E2768 30 min • NFPA 255 703 • ANSI/UL 723 • UBC 42.1**

Technical Data

Flame Spread Index <25	350-375 SF PER GAL	NON TOXIC	STAINABLE / PAINTABLE
CLASS A	TRANSPARENT	NON CORROSIVE	ENVIRONMENTALLY SAFE
1 COAT APPLICATION	DO NOT DILUTE	SL: 3 YRS <125°	DO NOT ALLOW TO FREEZE

FIRE RETARDANCY: Interior application is indefinite if material treated is protected from wet locations / Exterior fire retardancy is based on 2 years depending on the geographical location of the treated material.

Application Process:

Ensure that all materials interior or exterior to be treated are clean and dry prior to application. **FX FlameGuard** is ready to use when received, **DO NOT DILUTE**. Apply on surfaces with a temp of 60° or higher. Apply by brushing with a paint brush, rolling with a paint roller or spraying with hand sprayer. Coverage rate is 350 - 375 sf per gallon depending on material being treated. When applying, start from the bottom and work upwards; if more than one coat is needed, wait for the first coat to dry before beginning the next application. First coat will require 12 to 32 hours drying period depending on weather conditions (temp, humidity & wind). Rinse rollers and/or brushes when done with hot water.

****NOTE** Apply in a very well ventilated area. If necessary, use respirator if adequate ventilation is not possible.**

WARNING: KEEP THIS AND ALL CHEMICALS OUT OF CHILDREN'S REACH - AS WITH ANY PRODUCT, THIS PRODUCT MAY CAUSE EYE AND/OR SKIN IRRITATION - ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING THIS OR ANY CHEMICALS.





Fire Retardant Coatings of Texas®, LLC

1150 Blue Mound Rd West #403
Haslet, Texas 76052 Office (817) 710-5233
Sales@frctexas.com • www.frctexas.com

Safety Data Sheet (SDS)

Printing date 07/08/2015

OSHA Hazard Communication Standard 29 CFR 1910.1200.
Prepared to GHS Rev04.

Reviewed on April 2019

1 Product and Company Identification

- **Product identifier**
- **Trade name: Fire Retardant Coatings of Texas® FX FlameGuard**
- **Article number: FRCT FX FlameGuard**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product description**
Fire retardant coating for interior and exterior lumber, plywood, i-joint, thatching, bamboo and similar materials.
Non Hazardous Penetrant – Non Toxic – Environment Safe – Water Based
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Fire Retardant Coatings of Texas®, LLC
1150 Blue Mound Rd West #403
Haslet, TX 76052
Off (817) 710-5233
Fax (817) 439-8385
- **Emergency telephone number: (817) 710-5233**

2 Hazards identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Precautionary statements** Precautionary statements
- **Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

461-58-5	dicyandiamide	6.2%
7732-18-5	water, distilled, conductivity or of similar purity	44.4%

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.



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· Dangerous components:			
7664-38-2	phosphoric acid 85%	☠ H314	15.5%
57-13-6	Urea Prills		4.9%
	Proprietary		29%

4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Give large amounts of water. If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures: Personal Protection Equipment Required.**
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

7664-38-2 phosphoric acid 85%

PEL	1 mg/m ³
REL	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
TLV	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³

57-13-6 urea

WEEL	10 mg/m ³
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** May be required

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation (chemical resistant).

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles/Safety Glasses recommended during application.

9 Physical and chemical properties

· **Information on basic physical and chemical properties** TM

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Clear
Odor:	Yes
Odor threshold:	Moderate
pH-value:	Not determined.

· **Change in condition**

Melting point/Melting range:	~32 C
Boiling point/Boiling range:	212 °F (414 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

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- **Ignition temperature:**
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)
- **Density:** Not determined.
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - **Dynamic:** Not determined.
 - **Kinematic:** Not determined.
- **Solvent content:**
 - **Organic solvents:** 0.0 %
 - **Water:** 44.4 %
- **Solids content:** 10.2 %
- **Other information:** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** None
- **Primary irritant effect:**
- **on the skin:** Moderate
- **on the eye:** Moderate
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

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When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided in this document.

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
· NTP (National Toxicology Program)
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number** Void
- **DOT, ADR, ADN, IMDG, IATA** None
- **UN proper shipping name** None
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)** Void
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Class** Void
- **Packing group** Void
- **DOT, ADR, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

• **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

• **Section 313 (Specific toxic chemical listings):**

7664-38-2 phosphoric acid 75%

• **TSCA (Toxic Substances Control Act):**

461-58-5 cyanoguanidine

7664-38-2 phosphoric acid 75%

57-13-6 urea

7732-18-5 water, distilled, conductivity or of similar purity

• **Proposition 65**

• **Chemicals known to cause cancer:**

None of the ingredients is listed.

• **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

• **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

• **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

• **Carcinogenic categories**

• **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

• **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

• **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

• **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

• **GHS label elements** Void

• **Hazard pictograms** Void

• **Signal word** Void

• **Hazard statements** Void

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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DOT: US Department of Transportation IATA:
International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
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