



International Fireproof Technology, Inc.

17528 Von Karman Avenue, Irvine CA 92614

Material Safety Data Sheet - DC315

Emergency Telephone Number: CHEMTREC 1-800-424-9300

1. Product and Company Identification

Product: Water Based Fire Retardant Paint
Product Code: DC315
Company: International Fireproof Technology Inc.
17528 Von Karman Avenue
Irvine, CA 92614
Phone: 949-975-8588
MSDS Creation Date: February 20, 2012

HMIS	
Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	E

2. Composition/Information on Ingredients

Ingredient:	CAS No.	Percent (by weight)
Ammonium Polyphosphate	68333-79-9	25-45 %
Melamine	108-78-1	10-25 %
Pentaerythritol	115-77-5	10-25 %
PVAC Resin	9003-20-7	5-30 %
Titanium Dioxide	13463-67-7	5-10%
Water		20-40%

NFPA Rating	
Health Hazard	1
Fire Hazard	0
Reactivity	0

3. Hazards Identification

Emergency Overview: None

Potential Health Effects:

General: No Danger
Inhalation: Spray application may create aerosols which may result in irritation of the upper respiratory track, throat and nose.
Ingestion: If ingested, may cause irritation to the mouth, esophagus and stomach.
Skin Contact: Prolonged or repeated exposure may irritate skin.
Eye Contact: May cause irritation upon direct contact.

4. First Aid Measures

Inhalation: If inhaled, leave the area to obtain fresh air. Seek medical attention.
Ingestion: If swallowed, do NOT induce vomiting. Drink large amounts of water and seek medical attention immediately. Never give anything by mouth to an unconscious person.
Skin Contact: Wash thoroughly with soap and water. Seek medical attention if irritation develops or persists.
Eye Contact: In case of eye contact, flush with plenty of water for 15 minutes. Seek medical attention if irritation or symptoms of overexposure persists.

Note to Physician: None

5. Fire Fighting Measures

Flash Point: No Data
Lower Flammability Limit: Not Applicable
Upper Flammability Limit: Not Applicable
Fire Hazard: Nonflammable
Explosion Hazard: Not considered an explosion hazard.
Fire Extinguishing Media: No restriction on the type of extinguisher.
Protection of fire fighter: As in any fire, wear Self Contained Breathing Apparatus (SCBA).
MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Steps to be taken in case of spill or leak: Maintain adequate ventilation. Prevent runoff into sewers, ditches and waterways. Use sand or other material to dam or contain spill. Soak up with an inert absorbent. Store in a closed container until disposal.

7. Handling and Storage

Handling: Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Wash hands thoroughly with soap and water after handling as a standard hygienic practice.
Storage: Period ≤ 12 months. Keep containers tightly closed. Avoid direct sunlight and protect from freezing.
Special Comments: Store between 50°F – 86°F (10°C - 30°C) in a closed container in a protected area.

8. Exposure Controls / Personal Protection

Engineering Control: Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective, wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or recognized standards. Consult with local procedures for selection, training, inspection and maintenance of personal protective equipment.
Personal Respirators: Wear a NIOSH approved air purifying respirator during spray application.
Skin Protection: Wear chemical resistant gloves, face shield and synthetic apron or coveralls to prevent contact with eyes, skin and clothing.
Eye / Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation.

9. Physical and Chemical Properties

Appearance: White liquid
Odor: Mild latex odor
Data relevant to safety:
Flash point: Not applicable
Ignition temperature: Not applicable
Self-ignition temperature: Not applicable

Color:	White
Particle size:	< 90µm
Solid Content:	65 ± 3.0%
Density:	1.35 ± 0.10
pH:	7.0 ± 1.0
Thinner:	Water
VOC Content:	< 50 grams/liter

10. Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:	Thermal decomposition products or combustion: Ammonia, inorganic acids, carbon monoxide, carbon dioxide.
Hazardous Polymerization:	Not reported.
Incompatibilities:	Organic solvents
Conditions to Avoid:	Heat, flames, high temperatures condition (>113°F or > 45°C), strong alkaline, strong acid and strong oxidizing agents.

11. Toxicological Information

Acute oral toxicity (LD50):	None
Irritant effect on skin:	Prolonged or repeated exposure may irritate skin.
Irritant effect on eyes:	Slightly irritant

12. Ecological Information

Ecological effect:	Fish toxicity (LC50): None
Environmental Fate:	When released into the soil, this material is not expected to leach into groundwater. When released into water, this material is not expected to evaporate significantly.

13. Disposal Considerations

Waste Disposal:	Dispose waste by sanitary landfill or incineration in accordance with appropriate regulations.
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14. Transport Information

Shipping Name:	Product Name: Fire Retardant Paint
Product Code: DC315	
Size:	5 Gal. Pail, 55 Gal. Drum
Road transport:	Non-hazardous goods
Inland waterways transport:	Non-hazardous goods
Marine transport:	Non-hazardous goods
Air transport:	Non-hazardous goods
Dispatch by post:	Permitted

15. Regulatory Information

Health hazardous goods:	Not Applicable
Environmental hazardous goods:	Not Applicable
Fire hazardous goods:	Not Applicable

16. Other Information

Hazard Warning:	None
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Cautions:

Avoid contact with eyes and skin. Do not breathe vapors, dust or mist.
Use with adequate ventilation. Wash thoroughly after handling.

Product Use:

Fire Retardant Paint

Disclaimer:

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 and health of employees.



SAFETY DATA SHEET

1. Identification

Product identifier TB315-W - DC315 WHITE

Other means of identification
Product code TB315-W

Recommended use Intumescent Fire Resistant Coating

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information
Company name International Fireproof Technology, Inc.
17528 Von Karman Ave.
Irvine CA 92614

Email ptp@painttoprotect.com

Telephone Number 1-949-975-8588

Contact person SDS request

Emergency telephone number CHEMTREC 1-800-424-9300

2. Hazard identification

Physical hazards Not classified.

Health hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

The components are not hazardous or are below required disclosure limits.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed such as: Carbon oxides (CO _x). Nitrogen Oxides (NO _x). Hydrogen cyanide.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>This product is miscible in water.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Provide adequate ventilation. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	It is a good industrial hygiene practice to minimise skin contact. For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.

Colour	White
Odour	Not available.
Odour threshold	Not available.
pH	7 ±1.0
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 100 °C (> 212 °F)
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.35 ±0.1
Solubility(ies)	
Solubility (water)	Miscible (water)
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	8000 - 20000 cps
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
VOC	<= 50 g/l

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No inhalation hazard under normal conditions. Inhalation of titanium dioxide dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely.
Skin contact	Prolonged skin contact may cause temporary irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitisation	
Respiratory sensitisation	Not a respiratory sensitiser.
Skin sensitisation	This product is not expected to cause skin sensitisation.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Due to the form of the product, exposure to the potentially carcinogenic components is not expected. Titanium dioxide is considered carcinogenic only when in an inhalable powdered form.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	None known.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	This product is miscible in water.
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations**Stockholm Convention**

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 16-January-2019

Revision date -

Version No. 01

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