

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: FlameOFF Fire Barrier Paint

1.2. Intended Use of the Product

Use of the Substance/Mixture: Paint

1.3. Name, Address, and Telephone of the Responsible Party

Company

FlameOFF Coatings, Inc.

3915 Beryl Rd. Suite 130

Raleigh, NC 27607

888-565-7145

Website: flameoffcoatings.com

Email: info@flameoffcoatings.com

1.4. Emergency Telephone Number

Emergency Number : 866-598-8470
VelocityEHS
(800)255-3924 (North America)
+1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Acute toxicity (oral) Category 4	H302
Serious eye damage/eye irritation Category 2	H319
Carcinogenicity Category 2	H351
Reproductive toxicity Category 1B	H360
Specific target organ toxicity (repeated exposure) Category 2	H373

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H302 - Harmful if swallowed.
H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer (inhalation).
H360 - Male reproductive system (testis, sperm).
H373 - May cause damage to organs (urinary tract) through prolonged or repeated exposure.

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P330 - Rinse mouth.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P405 - Store locked up.

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Hazards Not Otherwise Classified (HNOC): Contains 1,2-Benzisothiazol-3(2H)-one(2634-33-5). May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Ammonium polyphosphate	Polyphosphoric acids, ammonium salts	(CAS-No.) 68333-79-9	29.67	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Water	AQUA	(CAS-No.) 7732-18-5	16.718 – 16.722	Not classified.
Pentaerythritol	2,2-Bis(hydroxymethyl)propane-1,3-diol / Monopentaerythritol / 2,2-Bis(hydroxymethyl)propanedi-1,3-ol / 2,2-Di(hydroxymethyl)propanedi-1,3-ol / 2,2-Di(hydroxymethyl)propane-1,3-diol / PENTAERYTHRITOL / Tetramethylolmethane / 1,3-Propanediol, 2,2-bis(hydroxymethyl)- / Propane-1,3-diol, 2,2-bis(hydroxymethyl)- / 2,2-Bis(hydroxymethyl)-1,3-propanediol	(CAS-No.) 115-77-5	10.12	Comb. Dust
Melamine	Cyanurotriamide / Cyanurotriamine / 2,4,6-Triamino-1,3,5-triazine / 2,4,6-Triamino-s-triazine / s-Triazine, 2,4,6-triamino- / 1,3,5-Triazine-2,4,6-triamine / Isomelamine / MELAMINE	(CAS-No.) 108-78-1	10.12	Carc. 2, H351 Repr. 2, H361 STOT RE 2, H373 Comb. Dust
Titanium dioxide	C.I. 77891 / C.I. Pigment White 6 / Titanium oxide (TiO2) / CI 77891 / Titanium(IV) oxide / C.I. Pigment White 7 / Pigment White 6 / Titanium oxide	(CAS-No.) 13463-67-7	9.28	Carc. 2, H351
Glass, oxide, chemicals	Glass, oxide / Glass / Sodium calcium polyphosphate / Glass powder / Sodium calcium polyphosphate silicate / Glass flake / Calcium aluminum borosilicate / Glass dust / GLASS / Fiberglass / CALCIUM ALUMINUM BOROSILICATE / Sodium zinc potassium polyphosphate / Calcium sodium polyphosphate	(CAS-No.) 65997-17-3	≤ 4.4	Not classified.

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-Propanol, 1-(2-butoxy-1-methylethoxy)-	Dipropylene glycol mono-n-butyl ether / 1-(2-Butoxy-1-methylethoxy)-2-propanol / 1-(1-Methyl-2-butoxy-ethoxy)-2-propanol / Glycol ether DPNB / Dipropylene glycol n-butyl ether / Glycol ether dpnb / Dipropylene glycol monobutyl ether / Dipropylene glycol butyl ether / 1-(2-Butoxy-1-methylethoxy)propan-2-ol	(CAS-No.) 29911-28-2	0.48	Not classified.
Petroleum distillates, hydrotreated light	Petroleum distillates, hydrotreated light (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9-16 and boiling in the range of approximately 150-290°C.) / Odorless light petroleum hydrocarbons / Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, / Distillates (petroleum), hydro-treated light; Kerosine - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (302°F to 554°F).] / Kerosene / c13-14 isoparaffin / Destillate (Erdöl), mit Wasserstoff behandelt leichte (C9-14 Aliphaten) / Odourless light petroleum hydrocarbons / Kerosene, hydrotreated / Hydrotreated light distillate / Distillates, petroleum, hydrotreated light / Distillates (petroleum), hydrotreated light / Light Aliphatic Hydrocarbon	(CAS-No.) 64742-47-8	0.24	Flam. Liq. 4, H227 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Octadecanoic acid, 9(or 10)-sulfo-, potassium salt	Octadecanoate, (9 or 10)-sulfo-, potassium / Oleic acid, sulfonated, potassium salt / 9(or 10)-Sulphooctadecanoic acid, potassium salt / 9(or 10)-Sulfooctadecanoic acid, potassium salt / Octadecanoic acid, 9(or 10)-sulfo-, potassium salt (1:?) / Potassium salt of 9(or 10)-sulfooctadecanoic acid	(CAS-No.) 67968-63-2	0.142373	Eye Dam. 1, H318 Repr. 1B, H360 Aquatic Chronic 3, H412
Bentonite	Bentolite / Bentonite (A colloidal clay. Consists primarily of montmorillonite.) / BENTONITE / Sodium aluminosilicate hydroxide / Sodium bentonite	(CAS-No.) 1302-78-9	0.1	Not classified.
Polycarboxylate, sodium salt	None.	(CAS-No.) 59233-52-2	0.048 – 0.052	Not classified.

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1,2-Benzisothiazol-3(2H)-one	1,2-Benzisothiazolin-3-one / Benzisothiazolinone / 1,2-Benzisothiazolone / 1,2-Benzisothiazol-3-one / Benzisothiazolin-3-one, 1,2- / BENZISOTHIAZOLINONE / benzisothiazolinone	(CAS-No.) 2634-33-5	0.032 – 0.044	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust
Diethylene glycol monobutyl ether	Butoxydiglycol / Butyl carbitol / Butyl dioxitol / Diethylene glycol butyl ether / Ethanol, 2-(2-butoxyethoxy)- / 2-(2-Butoxyethoxy)ethanol / Diethylene glycol mono-n-butyl ether / BUTOXYDIGLYCOL / Butyl diglycol / Diglycol monobutyl ether / Decan-1-ol, 3,6-dioxa- / BDG / Dowanol DB / Monobutyl ether of diethylene glycol	(CAS-No.) 112-34-5	0.0195 – 0.026	Flam. Liq. 4, H227 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. If exposed or concerned: Get medical advice/attention.

First-aid Measures After Eye Contact: Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes serious eye irritation. Harmful if swallowed. Male reproductive system (testis, sperm). May cause damage to organs (urinary tract) through prolonged or repeated exposure. Suspected of causing cancer (inhalation).

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

Chronic Symptoms: Suspected of causing cancer (Inhalation). May cause damage to organs (urinary tract) through prolonged or repeated exposure. May damage fertility or the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Phosphorus oxides. Ammonia. Carbon oxides (CO, CO₂). Titanium oxides. Nitrogen oxides. Aldehydes. Ketones. Sulfur oxides.

FlameOFF Fire Barrier Paint

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions, Protective Equipment and Emergency Procedures**
General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.
- 6.1.1. For Non-Emergency Personnel**
Protective Equipment: Use appropriate personal protective equipment (PPE).
Emergency Procedures: Evacuate unnecessary personnel.
- 6.1.2. For Emergency Personnel**
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.
- 6.2. Environmental Precautions**
Prevent entry to sewers and public waters.
- 6.3. Methods and Materials for Containment and Cleaning Up**
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.
- 6.4. Reference to Other Sections**
See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for Safe Handling**
Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.
- 7.2. Conditions for Safe Storage, Including Any Incompatibilities**
Technical Measures: Comply with applicable regulations.
Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.
Incompatible Materials: Strong acids, strong bases, strong oxidizers. Bronze. Copper. Aluminum. Zinc.
- 7.3. Specific End Use(s)**
Paint

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control Parameters**
For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).
- | Titanium dioxide (13463-67-7) | | |
|--------------------------------------|-------------------------|--|
| USA ACGIH | ACGIH OEL TWA | 0.2 mg/m³ (nanoscale respirable particulate matter)
2.5 mg/m³ (finescale respirable particulate matter) |
| USA ACGIH | ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| USA NIOSH | NIOSH REL (TWA) | 2.4 mg/m³ (CIB 63-fine)
0.3 mg/m³ (CIB 63-ultrafine, including engineered nanoscale) |
| USA IDLH | IDLH | 5000 mg/m³ |
| USA OSHA | OSHA PEL (TWA) [1] | 15 mg/m³ (total dust) |
| Pentaerythritol (115-77-5) | | |
| USA ACGIH | ACGIH OEL TWA | 10 mg/m³ |
| USA NIOSH | NIOSH REL (TWA) | 10 mg/m³ (total dust)
5 mg/m³ (respirable dust) |
| USA OSHA | OSHA PEL (TWA) [1] | 15 mg/m³ (total dust)
5 mg/m³ (respirable fraction) |
| Glass, oxide, chemicals (65997-17-3) | | |
| USA NIOSH | NIOSH REL (TWA) | 3 fibers/cm³ (fibers ≤3.5 µm in diameter & ≥10µm in length), TWA
5mg/m3 (total) |

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

USA OSHA	OSHA PEL (TWA) [1]	15 mg/m ³ total dust, 5 mg/m ³ , respirable fraction 8 hr
Diethylene glycol monobutyl ether (112-34-5)		
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm (inhalable fraction and vapor)
Melamine (108-78-1)		
USA AIHA	WEEL TWA	3 mg/m ³

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear protective gloves.

Eye and Face Protection

: Chemical safety goggles.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: 0 °C (32 °F)
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Density	: 12.33 lb/gal
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: 112 cP

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers. Bronze. Copper. Aluminum. Zinc.

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Ammonia. Phosphorus oxides. Oxides of titanium. Nitrogen oxides. Aldehydes. Ketones. Sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Harmful if swallowed.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

FlameOFF Fire Barrier Paint	
ATE (Oral)	977.76 mg/kg body weight
Water (7732-18-5)	
LD50 Oral Rat	> 90 ml/kg (Source: FOOD_JOURN)
Bentonite (1302-78-9)	
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)
Titanium dioxide (13463-67-7)	
LD50 Oral Rat	> 10000 mg/kg (Source: IUCLID)
LC50 Inhalation Rat	5.09 mg/l/4h
Pentaerythritol (115-77-5)	
LD50 Oral Rat	19500 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	> 10000 mg/kg (Source: ECHA_API)
LC50 Inhalation Rat	> 5.15 mg/l/4h
Ammonium polyphosphate (68333-79-9)	
LD50 Oral Rat	> 300 – 2000 mg/kg
LC50 Inhalation Rat	> 4.85 mg/l/4h
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
LD50 Oral Rat	1020 mg/kg (Source: NZ_CCID)
LD50 Dermal Rat	> 2000 mg/kg (Source: ECHA_API)
2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2)	
LD50 Oral Rat	3700 mg/kg (Species: Wistar)
LC50 Inhalation Rat	42.1 ppm/4h
Diethylene glycol monobutyl ether (112-34-5)	
LD50 Oral Rat	5660 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	2700 mg/kg (Source: NLM_CIP)
Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)
LD50 Dermal Rabbit	> 2000 mg/kg (Source: NLM_CIP)
LC50 Inhalation Rat	> 5.2 mg/l/4h No deaths resulted. At necropsy, no significant effects were found in the lungs.
Melamine (108-78-1)	
LD50 Oral Rat	3161 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	> 1 g/kg (Source: NLM_CIP)
LC50 Inhalation Rat	> 5.19 g/m ³ (Exposure time: 4 h Source: NICNAS)

Skin Corrosion/Irritation: Not classified.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Suspected of causing cancer (inhalation).

Titanium dioxide (13463-67-7)	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Glass, oxide, chemicals (65997-17-3)	
IARC group	3
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Melamine (108-78-1)	
IARC group	2B
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: Male reproductive system (testis, sperm).

Specific Target Organ Toxicity (Single Exposure): Not classified.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs (urinary tract) through prolonged or repeated exposure.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

Chronic Symptoms: Suspected of causing cancer (Inhalation). May cause damage to organs (urinary tract) through prolonged or repeated exposure. May damage fertility or the unborn child.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

Bentonite (1302-78-9)	
LC50 Fish 1	19000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
Pentaerythritol (115-77-5)	
LC50 Fish 1	> 100 mg/l (Exposure Time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	30477 – 37043 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Ammonium polyphosphate (68333-79-9)	
LC50 Fish 1	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static] Source: IUCLID)
LC50 Fish 2	123 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
EC50 - Crustacea [1]	0.99 mg/l
2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2)	
LC50 Fish 1	841 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
ErC50 (Algae)	556.4 mg/l
Diethylene glycol monobutyl ether (112-34-5)	
LC50 Fish 1	1300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [1]	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Petroleum distillates, hydrotreated light (64742-47-8)	
LC50 Fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: IUCLID)
LC50 Fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
Melamine (108-78-1)	
LC50 Fish 1	> 3000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata Source: IUCLID)
EC50 - Crustacea [1]	> 2000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 (Algae)	196 mg/l
NOEC Chronic Fish	5.1 mg/l
NOEC Chronic Crustacea	11 mg/l
NOEC Chronic Algae	31 mg/l

12.2. Persistence and Degradability

FlameOFF Fire Barrier Paint	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

FlameOFF Fire Barrier Paint	
------------------------------------	--

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Bioaccumulative Potential	Not established.
Pentaerythritol (115-77-5)	
BCF Fish 1	0.3 – 0.6
Partition coefficient n-octanol/water (Log Pow)	-1.7 at 23 °C / 73.4 °F (at pH 6.1)
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
Partition coefficient n-octanol/water (Log Pow)	0.99 at 20 °C / 68 °F (at pH 5)
Diethylene glycol monobutyl ether (112-34-5)	
BCF Fish 1	(no bioconcentration expected)
Partition coefficient n-octanol/water (Log Pow)	1 at 20 °C / 68 °F (at pH 7)
Petroleum distillates, hydrotreated light (64742-47-8)	
BCF Fish 1	61 – 159
Melamine (108-78-1)	
BCF Fish 1	(0.38)
Partition coefficient n-octanol/water (Log Pow)	-1.22 at 22 °C / 71.6 °F (at pH 8)

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

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

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

FlameOFF Fire Barrier Paint	
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Serious eye damage or eye irritation Health hazard - Carcinogenicity Health hazard - Reproductive toxicity Health hazard - Acute toxicity (any route of exposure)
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Bentonite (1302-78-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Pentaerythritol (115-77-5)	

FlameOFF Fire Barrier Paint

Safety Data Sheet


According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Octadecanoic acid, 9(or 10)-sulfo-, potassium salt (67968-63-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Ammonium polyphosphate (68333-79-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Glass, oxide, chemicals (65997-17-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
1,2-Benzisothiazol-3(2H)-one (2634-33-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Diethylene glycol monobutyl ether (112-34-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Petroleum distillates, hydrotreated light (64742-47-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Melamine (108-78-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. US State Regulations

Titanium dioxide (13463-67-7)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
Pentaerythritol (115-77-5)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
Melamine (108-78-1)
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

California Proposition 65

 **WARNING:** This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer.
For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Titanium dioxide (13463-67-7)	X			

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision	: 07/22/2024
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child

FlameOFF Fire Barrier Paint

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)	FOOD_JOURN: Food Research Journal (1956)
AU_WES: Australia WES	IARC: The International Agency for Research on Cancer
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)	IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
EC_RAR: European Commission Renewal Assessment Report	IUCLID: International Uniform Chemical Information Database
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits	JAPAN_GHS: Japan GHS Basis for Classification Data
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports	JP_J-CHECK: Japan J-Check
ECHA_API: European Chemicals Agency API	KR_NIER: South Korea National Institute of Environmental Research Evaluations
ECHA_RAC: ECHA Committee for Risk Assessment	NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
EFSA: European Food Safety Authority	NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
EPA: U.S. Environmental Protection Agency	NLM_CIP: National Library of Medicine ChemID plus database
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)	NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)	NLM_PUBMED: National Library of Medicine PubMed database
EPA_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)	NTP: National Toxicology Program
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)	NZ_CCID: New Zealand Chemical Classification and Information Database
EU_CLH: European Union Harmonised Classification and Labelling Proposal	OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
EU_RAR: European Union Risk Assessment Report	OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
	WHO: World Health Organization

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)