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: No use is specified.

1.3. Name, Address, and Telephone of the Responsible Party
Company
FlameOFF Coatings, Inc.
1110 Navaho Dr.
Raleigh, NC 27609
888-565-7145
flameoffcoatings.com

1.4. Emergency Telephone Number
Emergency Number: ChemTel : 800-255-3824

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Acute Tox. 4 (Oral) H302
Eye Irrit. 2 H319
Carc. 2 H351
Repr. 1B H360
Full text of hazard classes and H-statements : see section 16

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.
H360 - May damage fertility or the unborn child.

Precautionary Statements (GHS-US) :
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
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.
P330 - Rinse mouth.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P405 - Store locked up.
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.

2.4. Unknown Acute Toxicity (GHS-US)
No data available
### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance
Not applicable

#### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Synonyms</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>AQUA / Aqua</td>
<td>(CAS-No.) 68333-79-9</td>
<td>29.67</td>
<td>Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Pentaerythritol</td>
<td>2,2-Bis(hydroxymethyl)-1,3-propanediol / Tetramethylylomethane / Propane-1,3-diol, 2,2-bis(hydroxymethyl)- / 1,3-Propanediol, 2,2-bis(hydroxymethyl)- / 2,2-Bis(hydroxymethyl)propane-1,3-diol / Nonopentaerythritol / 2,2-Bis(hydroxymethyl)propanedi-1,3-diol / 2,2-Di(hydroxymethyl)propanedi-1,3-diol / Di(hydroxymethyl)propane-1,3-diol</td>
<td>(CAS-No.) 115-77-5</td>
<td>10.12</td>
<td>Comb. Dust</td>
</tr>
<tr>
<td>Melamine</td>
<td>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 / Somelamine</td>
<td>(CAS-No.) 108-78-1</td>
<td>10.12</td>
<td>Carc. 2, H351 Comb. Dust</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>Glass, oxide / Glass / Sodium calcium polyphosphate / Glass powder / Calcium sodium polyphosphate / Sodium calcium polyphosphate silicate / Sodium zinc potassium polyphosphate / Glass flake / Calcium aluminum borosilicate / Glass dust / GLASS / Fiberglass</td>
<td>(CAS-No.) 65997-17-3</td>
<td>&lt;= 4.4</td>
<td>Not classified</td>
</tr>
<tr>
<td>2-Propanol, 1-(2-butoxy-1-methylethoxy)-</td>
<td>1-(2-Butoxy-1-methylethoxy)propan-2-ol / Dipropylene glycol buty1 ether / Dipropylene glycol monobutyl ether / Glycol ether dpnb / Dipropylene glycol n-butyl ether / Glycol ether DPNB / 1-(1-Methyl-2-butoxy-ethoxy)-2-propanol / 1-(2-Butoxy-1-methylethoxy)-2-propanol / Dipropylene glycol monono-butyl ether</td>
<td>(CAS-No.) 29911-28-2</td>
<td>0.48</td>
<td>Not classified</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>Distillates (petroleum), hydrotreated light / Distillates, petroleum, hydrotreated light / Hydrotreated light distillate / Jet fuels / Kerosene, hydrotreated / 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) / Hydrocarbons, C11-14, n-alkanes, isomalkanes, cyclics, / Odorless light petroleum hydrocarbons</td>
<td>(CAS-No.) 64742-47-8</td>
<td>0.24</td>
<td>Flam. Liq. 4, H227 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Octadecanoic acid, 9(or 10)-sulfo-, potassium salt</td>
<td>Octadecanoate, (9 or 10)-sulfo-, potassium / Oleic acid, sulfonated, potassium salt / 9(or 10)-Sulpho-octadecanoic acid, potassium salt / 9(or 10)-Sulfo-octadecanoic acid, potassium salt / Octadecanoic acid, 9(or 10)-sulfo-, potassium salt (1:?)</td>
<td>(CAS-No.) 67968-63-2</td>
<td>&lt;= 0.1849</td>
<td>Eye Dam. 1, H318 Repr. 1B, H360 Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Bentonite</td>
<td>Bentolite / Bentonite (A colloidal clay. Consists primarily of montmorillonite.) / BENTONITE / Sodium aluminosilicate hydroxide / Sodium bentonite</td>
<td>(CAS-No.) 1302-78-9</td>
<td>0.1</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
FlameOFF Fire Barrier Paint

Safety Data Sheet

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<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Amount Range</th>
<th>H-Phrase</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycarboxylate, sodium salt</td>
<td>0.048 - 0.052</td>
<td>0.032 - 0.044</td>
<td>Not classified</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>Acute Tox. 4 (Oral), H302</td>
<td>Skin Irrit. 2, H315</td>
<td>1,2-Benzisothiazolin-3-one, 1,2- / BENZISOTHIAZOLINONE</td>
</tr>
<tr>
<td>(CAS-No.) 2634-33-5</td>
<td>Eye Dam. 1, H318</td>
<td>Skin Sens. 1, H317</td>
<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td>(CAS-No.) 112-34-5</td>
<td>Aquatic Chronic 1, H410</td>
<td>Comb. Dust Flam. Liq. 4, H227</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butoxydiglycol / Butyl carbitol / Butyl dioxitol / Diethylene glycol butyl ether / Ethanol, 2-(2-butoxyethoxy)- / 2-(2-Butoxyethoxy)ethanol / Diethylene glycol mono-n-butyl ether / BUTOXIDIGLYCOL / Butyl diglycol / Diglycol monobutyl ether / Decan-1-ol, 3,6-dioxa- / BDG / Dowanol DB</td>
<td>0.0195 - 0.026</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 4, H227</td>
<td>Eye Irrit. 2A, H319</td>
<td></td>
</tr>
</tbody>
</table>

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. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

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. May damage fertility. May damage the unborn child. Suspected of causing cancer.

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: May damage fertility or the unborn child. Suspected of causing cancer.

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, dry chemical, foam, carbon dioxide.

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.


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).


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. 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: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing.

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.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

No use is specified.

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).

<table>
<thead>
<tr>
<th>Substance</th>
<th>USA ACGIH TWA (mg/m³)</th>
<th>USA ACGIH chemical category</th>
<th>USA NIOSH NIOSH REL (TWA) (mg/m³)</th>
<th>USA IDLH US IDLH (mg/m³)</th>
<th>USA OSHA OSHA PEL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>10 mg/m³</td>
<td>Not Classifiable as a Human Carcinogen</td>
<td>2.4 mg/m³ (CIB 63-fine)</td>
<td>5000 mg/m³</td>
<td>15 mg/m³ (total dust)</td>
</tr>
<tr>
<td>Pentaerythritol (115-77-5)</td>
<td>10 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass, oxide, chemicals (65997-17-3)</td>
<td>10 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether (112-34-5)</td>
<td>10 ppm (inhalable fraction and vapor)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melamine (108-78-1)</td>
<td>3 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Titanium dioxide (13463-67-7)

USA ACGIH
ACGIH TWA (mg/m³) 10 mg/m³
ACGIH chemical category Not Classifiable as a Human Carcinogen
USA NIOSH
NIOSH REL (TWA) (mg/m³) 2.4 mg/m³ (CIB 63-fine) 0.3 mg/m³ (CIB 63-ultrafine, including engineered nanoscale)
USA IDLH
US IDLH (mg/m³) 5000 mg/m³
USA OSHA
OSHA PEL (TWA) (mg/m³) 15 mg/m³ (total dust)

Pentaerythritol (115-77-5)

USA ACGIH
ACGIH TWA (mg/m³) 10 mg/m³
USA NIOSH
NIOSH REL (TWA) (mg/m³) 10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
USA OSHA
OSHA PEL (TWA) (mg/m³) 15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

Glass, oxide, chemicals (65997-17-3)

USA NIOSH
NIOSH REL (TWA) (mg/m³) 3 fibers/cm³ (fibers ≤3.5 µm in diameter & ≥10µm in length), TWA 5mg/m³ (total)
USA OSHA
OSHA PEL (TWA) (mg/m³) 15 mg/m³ total dust, 5 mg/m³, respirable fraction 8 hr

Diethylene glycol monobutyl ether (112-34-5)

USA ACGIH
ACGIH TWA (ppm) 10 ppm (inhalable fraction and vapor)

Melamine (108-78-1)

USA AIHA
WEEL TWA (mg/m³) 3 mg/m³
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.


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: No data available
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.
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.
10.6. Hazardous Decomposition Products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects
Acute Toxicity: Not classified

<table>
<thead>
<tr>
<th>FlameOFF Fire Barrier Paint</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE (Oral)</td>
<td>979.42 mg/kg body weight</td>
</tr>
</tbody>
</table>

Bentonite (1302-78-9)
## FlameOFF Fire Barrier Paint
### Safety Data Sheet

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

### Acute Oral Toxicity

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Species</th>
<th>LD50 Oral Rat</th>
<th>LC50 Inhalation Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td></td>
<td>&gt; 5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Pentaerythritol (115-77-5)</td>
<td></td>
<td>&gt; 10000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Ammonium polyphosphate (68333-79-9)</td>
<td></td>
<td></td>
<td>&gt; 11 g/m³ (Exposure time: 6 h)</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</td>
<td></td>
<td>300 - 2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>2-Propanol, 1-(2-butoxy-1-methylethoxy) (29911-28-2)</td>
<td></td>
<td>3700 mg/kg (Species: Wistar)</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether (112-34-5)</td>
<td></td>
<td>5660 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether, hydrotreated light (64742-47-8)</td>
<td></td>
<td>&gt; 5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light (64742-47-8)</td>
<td></td>
<td>&gt; 2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Melamine (108-78-1)</td>
<td></td>
<td>3161 mg/kg</td>
<td>&gt; 5.2 mg/l/4h No deaths resulted. At necropsy, no significant effects were found in the lungs.</td>
</tr>
</tbody>
</table>

### Acute Dermal Toxicity

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Species</th>
<th>LD50 Dermal Rabbit</th>
<th>ATE (Dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td></td>
<td>2700 mg/kg</td>
<td>2700.00 mg/kg body weight</td>
</tr>
<tr>
<td>Melamine (108-78-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Acute Inhalation Toxicity

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Species</th>
<th>LC50 Inhalation Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td></td>
<td>&gt; 11 g/m³</td>
</tr>
<tr>
<td>Melamine (108-78-1)</td>
<td></td>
<td>&gt; 5.2 mg/l/4h</td>
</tr>
</tbody>
</table>

### 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. IARC conclusions on titanium dioxide are based on evidence that showed high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation. Therefore, the observations of cancer in animals were considered, by IARC, as relevant to people doing jobs with exposures to titanium dioxide dust. Since the titanium dioxide is not in dust form in this product, it is not expected to present a cancer risk. Glass, oxide, chemicals Carcinogenicity applies only to specialty e-glass.

### Melamine (108-78-1)

- IARC group: 2B

### Glass, oxide, chemicals (65997-17-3)

- IARC group: 2B
- National Toxicology Program (NTP) Status: Reasonably anticipated to be Human Carcinogen.

### Reproductive Toxicity

- May damage fertility or the unborn child.

### Specific Target Organ Toxicity (Single Exposure)

- Not classified

### Specific Target Organ Toxicity (Repeated Exposure)

- Not classified

### 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

- May damage fertility or the unborn child. Suspected of causing cancer.
### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Endpoint</th>
<th>Concentration</th>
<th>Exposure Duration</th>
<th>Species/Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bentonite (1302-78-9)</td>
<td>LC50 Fish 1</td>
<td>19000 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss [static]</td>
</tr>
<tr>
<td>Pentaerythritol (115-77-5)</td>
<td>LC50 Fish 1</td>
<td>&gt; 100 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
</tr>
<tr>
<td></td>
<td>EC50 Daphnia 1</td>
<td>30477 - 37043 mg/l</td>
<td>48 h</td>
<td>Daphnia magna [Static]</td>
</tr>
<tr>
<td>Ammonium polyphosphate (68333-79-9)</td>
<td>LC50 Fish 1</td>
<td>&gt; 500 mg/l</td>
<td>96 h</td>
<td>Brachydanio rerio [static]</td>
</tr>
<tr>
<td></td>
<td>LC50 Fish 2</td>
<td>123 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss [flow-through]</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</td>
<td>EC50 Daphnia 1</td>
<td>0.99 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Propanol, 1-(2-butoxy-1-methylethoxy)-</td>
<td>LC50 Fish 1</td>
<td>841 mg/l</td>
<td>96 h</td>
<td>Poecilia reticulata [static]</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether (112-34-5)</td>
<td>ErC50 (Algae)</td>
<td>556.4 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light (64742-47-8)</td>
<td>LC50 Fish 1</td>
<td>1300 mg/l</td>
<td>96 h</td>
<td>Pimephales promelas [flow-through]</td>
</tr>
<tr>
<td></td>
<td>LC50 Fish 2</td>
<td>2.2 mg/l</td>
<td>96 h</td>
<td>Lepomis macrochirus [static]</td>
</tr>
<tr>
<td>Melamine (108-78-1)</td>
<td>BCF Fish 1</td>
<td>0.3 - 0.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Log Pow</td>
<td>1.3 (at 25 °C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BCF Fish 1</td>
<td>0.38</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Log Pow</td>
<td>1.14 (at 25 °C)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and Degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Endpoint</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>FlameOFF Fire Barrier Paint</td>
<td>Log Pow</td>
<td>1.3 (at 25 °C)</td>
</tr>
<tr>
<td></td>
<td>BCF Fish 1</td>
<td>0.38</td>
</tr>
<tr>
<td></td>
<td>Log Pow</td>
<td>1.14 (at 25 °C)</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Endpoint</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>FlameOFF Fire Barrier Paint</td>
<td>BCF Fish 1</td>
<td>0.3 - 0.6</td>
</tr>
<tr>
<td>Bioaccumulative Potential</td>
<td>Log Pow</td>
<td>1.3 (at 25 °C)</td>
</tr>
<tr>
<td>Pentaerythritol (115-77-5)</td>
<td>BCF Fish 1</td>
<td>0.38</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether (112-34-5)</td>
<td>BCF Fish 1</td>
<td>0.38</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light (64742-47-8)</td>
<td>BCF Fish 1</td>
<td>61 - 159</td>
</tr>
</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>FlameOFF Fire Barrier Paint</th>
<th>SARA Section 311/312 Hazard Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Health hazard - Acute toxicity (any route of exposure)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Health hazard - Serious eye damage or eye irritation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Health hazard - Carcinogenicity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Water (7732-18-5)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Bentonite (1302-78-9)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Titanium dioxide (13463-67-7)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Pentaerythritol (115-77-5)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Octadecanoic acid, 9(or 10)-sulfo-, potassium salt (67968-63-2)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Ammonium polyphosphate (68333-79-9)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Glass, oxide, chemicals (65997-17-3)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Diethylene glycol monobutyl ether (112-34-5)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Petroleum distillates, hydrotreated light (64742-47-8)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>Melamine (108-78-1)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

#### 15.2. US State Regulations

<table>
<thead>
<tr>
<th>FlameOFF Fire Barrier Paint</th>
<th>SARA Section 311/312 Hazard Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Titanium dioxide (13463-67-7)</strong></td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td><strong>Titanium dioxide (13463-67-7)</strong></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td><strong>Titanium dioxide (13463-67-7)</strong></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td><strong>Pentaerythritol (115-77-5)</strong></td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td><strong>Pentaerythritol (115-77-5)</strong></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td><strong>Pentaerythritol (115-77-5)</strong></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td><strong>Melamine (108-78-1)</strong></td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td><strong>Melamine (108-78-1)</strong></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td><strong>Melamine (108-78-1)</strong></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

**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.

04/19/2019 EN (English US)
FlameOFF Fire Barrier Paint
Safety Data Sheet
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Date of Preparation or Latest Revision: 04/19/2019
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:

- Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4
- Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1
- Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2
- Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 1
- Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2
- Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 3
- Asp. Tox. 1 Aspiration hazard Category 1
- Carc. 2 Carcinogenicity Category 2
- Comb. Dust Combustible Dust
- Eye Dam. 1 Serious eye damage/eye irritation Category 1
- Eye Irrit. 2 Serious eye damage/eye irritation Category 2
- Eye Irrit. 2A Serious eye damage/eye irritation Category 2A
- Flam. Liq. 4 Flammable liquids Category 4
- Repr. 1B Reproductive toxicity Category 1B
- Skin Irrit. 2 Skin corrosion/irritation Category 2
- Skin Sens. 1 Skin sensitization, Category 1
- STOT SE 3 Specific target organ toxicity (single exposure) Category 3
- 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
- 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

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)