

# SAFETY DATA SHEET

APF Gels

## Section 1. Identification

**GHS product identifier** : APF Gels

**Other means of identification** : Not available.

**Product code** 1830201, 1830202, 1830203, 1830204, 1830205

**Product type** : Liquid.

**Product use** : Dental Products

**Relevant identified uses of the substance or mixture and uses advised against**  
Not applicable.

**Supplier's details** : Pure Life, LLC  
1908 E. Dominguez St.  
Los Angeles, California

**Emergency telephone number (with hours of operation)** : (877)-777-3303

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : ACUTE TOXICITY (oral) - Category 4  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 6.3%

### GHS label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Harmful if swallowed.  
Causes serious eye irritation.  
Suspected of causing cancer.

### Precautionary statements

**General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Response** : IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : Store locked up.

## Section 2. Hazards identification

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

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

### CAS number/other identifiers

**CAS number** : Not applicable.

May contain one or more of the following components in quantities considered hazardous:

| Ingredient name           | CAS number | EC number | %       |
|---------------------------|------------|-----------|---------|
| sodium fluoride           | 7681-49-4  | 231-667-8 | 1 - 5   |
| Phosphoric acid, solution | 7664-38-2  | 231-633-2 | 1 - 5   |
| Hydrofluoric acid         | 7664-39-3  | 231-634-8 | 0.1 - 1 |
| titanium dioxide          | 13463-67-7 | 236-675-5 | 0 - 0.1 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

## Section 4. First aid measures

- Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : Harmful if swallowed.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness
- Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.  
**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.  
**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 phosphorus oxides  
 halogenated compounds  
 metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## Section 6. Accidental release measures

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name | Exposure limits  |
|-----------------|--|
| sodium fluoride | <b>ACGIH TLV (United States, 3/2015).</b><br>TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours.<br><b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours.<br><b>NIOSH REL (United States, 10/2013).</b><br>TWA: 2.5 mg/m <sup>3</sup> , (as F) 10 hours.<br><b>OSHA PEL Z2 (United States, 2/2013).</b><br>TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: Dust<br><b>OSHA PEL (United States, 2/2013).</b><br>TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours. |

## Section 8. Exposure controls/personal protection

|                           |  |
|---------------------------|--|
| Phosphoric acid, solution | <b>ACGIH TLV (United States, 3/2015).</b><br>TWA: 1 mg/m <sup>3</sup> 8 hours.<br>STEL: 3 mg/m <sup>3</sup> 15 minutes.<br><b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 1 mg/m <sup>3</sup> 8 hours.<br>STEL: 3 mg/m <sup>3</sup> 15 minutes.<br><b>NIOSH REL (United States, 10/2013).</b><br>TWA: 1 mg/m <sup>3</sup> 10 hours.<br>STEL: 3 mg/m <sup>3</sup> 15 minutes.<br><b>OSHA PEL (United States, 2/2013).</b><br>TWA: 1 mg/m <sup>3</sup> 8 hours.<br><b>ACGIH TLV (United States, 3/2015).</b><br><b>Absorbed through skin.</b><br>TWA: 0.5 ppm, (as F) 8 hours.<br>C: 2 ppm, (as F)<br><b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 3 ppm, (as F) 8 hours.<br>STEL: 6 ppm, (as F) 15 minutes.<br><b>OSHA PEL Z2 (United States, 2/2013).</b><br>TWA: 3 ppm 8 hours.<br><b>NIOSH REL (United States, 10/2013).</b><br>TWA: 3 ppm 10 hours.<br>TWA: 2.5 mg/m <sup>3</sup> 10 hours.<br>CEIL: 6 ppm 15 minutes.<br>CEIL: 5 mg/m <sup>3</sup> 15 minutes.<br><b>OSHA PEL (United States, 2/2013).</b><br>TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours.<br><b>ACGIH TLV (United States, 3/2015).</b><br>TWA: 10 mg/m <sup>3</sup> 8 hours.<br><b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust<br><b>OSHA PEL (United States, 2/2013).</b><br>TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust |
| hydrofluoric acid         |  |
| titanium dioxide          |  |

### Appropriate engineering controls

- : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

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

#### Eye/face protection

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid. [Gel]
- Color** : Not available.
- Odor** : Characteristic.
- pH** : 4.05 to 5
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : Not available.
- Solubility** : Not available.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Viscosity** : Dynamic (room temperature): 10000 to 45000 mPa·s (10000 to 45000 cP)

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.

## Section 10. Stability and reactivity

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name   | Result                | Species | Dose                   | Exposure   |
|---------------------------|-----------------------|---------|------------------------|------------|
| sodium fluoride           | LD50 Oral             | Rat     | 31 mg/kg               | -          |
| Phosphoric acid, solution | LD50 Oral             | Rat     | 1.25 g/kg              | -          |
| hydrofluoric acid         | LC50 Inhalation Gas.  | Rat     | 1276 ppm               | 1 hours    |
|                           | LC50 Inhalation Vapor | Rat     | 1100 mg/m <sup>3</sup> | 60 minutes |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                             | Observation |
|-------------------------|--------------------------|---------|-------|--------------------------------------|-------------|
| sodium fluoride         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams               | -           |
| hydrofluoric acid       | Eyes - Severe irritant   | Human   | -     | 50 milligrams                        | -           |
|                         | Skin - Severe irritant   | Rat     | -     | 3 minutes 50 Percent                 | -           |
| titanium dioxide        | Skin - Mild irritant     | Human   | -     | 72 hours 300 Micrograms Intermittent | -           |

#### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| sodium fluoride         | -    | 3    | -   |
| hydrofluoric acid       | -    | 3    | -   |
| titanium dioxide        | -    | 2B   | -   |

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.



## Section 11. Toxicological information

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route | ATE value    |
|-------|--------------|
| Oral  | 1456.6 mg/kg |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name   | Result                                | Species   | Exposure |
|---------------------------|---------------------------------------|---|----------|
| sodium fluoride           | Acute EC50 181000 µg/l Marine water   | Algae - Skeletonema costatum  | 96 hours |
|                           | Acute EC50 850000 µg/l Fresh water    | Algae - Scenedesmus subspicatus - Exponential growth phase          | 72 hours |
|                           | Acute EC50 179.4 mg/l Fresh water     | Crustaceans - Cypris subglobosa                                     | 48 hours |
|                           | Acute EC50 98000 µg/l Fresh water     | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|                           | Acute LC50 51000 µg/l Fresh water     | Fish - Oncorhynchus mykiss  | 96 hours |
|                           | Chronic NOEC 14000 µg/l Fresh water   | Daphnia - Daphnia magna   | 21 days  |
| Phosphoric acid, solution | Chronic NOEC 3.1 mg/l Fresh water     | Fish - Acipenser baerii - Juvenile (Fledgling, Hatchling, Weanling) | 90 days  |
|                           | Acute EC50 105 ppm Fresh water        | Daphnia - Daphnia magna   | 48 hours |
| titanium dioxide          | Acute LC50 60 ppm Fresh water         | Fish - Lepomis macrochirus  | 96 hours |
|                           | Acute LC50 3 mg/l Fresh water         | Crustaceans - Ceriodaphnia dubia - Neonate                          | 48 hours |
|                           | Acute LC50 6.5 mg/l Fresh water       | Daphnia - Daphnia pulex - Neonate                                   | 48 hours |
|                           | Acute LC50 >1000000 µg/l Marine water | Fish - Fundulus heteroclitus  | 96 hours |

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| titanium dioxide        | -                  | 352 | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.




## Section 12. Ecological information

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

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

## Section 14. Transport information

|                                   | <b>DOT<br/>Classification</b>  | <b>TDG<br/>Classification</b> | <b>Mexico<br/>Classification</b> | <b>ADR/RID</b> | <b>IMDG</b>    | <b>IATA</b>    |
|-----------------------------------|--|-------------------------------|----------------------------------|----------------|----------------|----------------|
| <b>UN number</b>                  | UN3082   | Not regulated.                | Not regulated.                   | Not regulated. | Not regulated. | Not regulated. |
| <b>UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrofluoric acid, sodium fluoride)   | -                             | -                                | -              | -              | -              |
| <b>Transport hazard class(es)</b> | 9<br>   | -                             | -                                | -              | -              | -              |
| <b>Packing group</b>              | III  | -                             | -                                | -              | -              | -              |
| <b>Environmental hazards</b>      | No.  | No.                           | No.                              | No.            | No.            | No.            |
| <b>Additional information</b>     | <b>Reportable quantity</b><br>29112.9 lbs / 13217.3 kg<br>The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements | -                             | -                                | -              | -              | -              |

## Section 14. Transport information

|  |   |  |  |  |  |  |
|--|---|--|--|--|--|--|
|  | and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials. |  |  |  |  |  |
|--|---|--|--|--|--|--|

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 4(a) proposed test rules:** Sodium saccharin  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Commerce control list precursor:** sodium fluoride; Hydrofluoric acid  
**United States inventory (TSCA 8b):** Not determined.  
**Clean Water Act (CWA) 311:** Phosphoric acid, solution; sodium fluoride; Hydrofluoric acid

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304**

**Composition/information on ingredients**

| Name              | %       | EHS  | SARA 302 TPQ |           | SARA 304 RQ |           |
|-------------------|---------|------|--------------|-----------|-------------|-----------|
|                   |         |      | (lbs)        | (gallons) | (lbs)       | (gallons) |
| hydrofluoric acid | 0.1 - 1 | Yes. | 100          | 10.4      | 100         | 10.4      |

## Section 15. Regulatory information

**SARA 304 RQ** : 29112.9 lbs / 13217.3 kg

### SARA 311/312

**Classification** : Immediate (acute) health hazard  
Delayed (chronic) health hazard

### Composition/information on ingredients

| Name                      | %       | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---------------------------|---------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| sodium fluoride           | 1 - 5   | No.         | No.                        | No.      | Yes.                            | No.                             |
| Phosphoric acid, solution | 1 - 5   | No.         | No.                        | No.      | Yes.                            | No.                             |
| hydrofluoric acid         | 0.1 - 1 | No.         | No.                        | No.      | Yes.                            | No.                             |
| titanium dioxide          | 0 - 0.1 | No.         | No.                        | No.      | No.                             | Yes.                            |

### State regulations

**Massachusetts** : The following components are listed: PHOSPHORIC ACID; SODIUM FLUORIDE  
**New York** : The following components are listed: Phosphoric acid; Sodium fluoride  
**New Jersey** : The following components are listed: PHOSPHORIC ACID; SODIUM FLUORIDE  
**Pennsylvania** : The following components are listed: PHOSPHORIC ACID; SODIUM FLUORIDE (NAF)  
**California Prop. 65**

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

| Ingredient name  | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|------------------|--------|--------------|---------------------------|---------------------------------|
| titanium dioxide | Yes.   | No.          | No.                       | No.                             |

**Canada inventory** : Not determined.

### International regulations

**International lists** : **Australia inventory (AICS)**: Not determined.  
**China inventory (IECSC)**: Not determined.  
**Japan inventory**: Not determined.  
**Korea inventory**: Not determined.  
**Malaysia Inventory (EHS Register)**: Not determined.  
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.  
**Philippines inventory (PICCS)**: Not determined.  
**Taiwan inventory (CSNN)**: Not determined.

**Chemical Weapons** : Not listed

**Convention List Schedule I Chemicals**

**Chemical Weapons** : Not listed

**Convention List Schedule II Chemicals**

**Chemical Weapons** : Not listed

**Convention List Schedule III Chemicals**

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

|                     |   |
|---------------------|---|
| Health              | 1 |
| Flammability        | 0 |
| Physical hazards    | 0 |
| Personal protection |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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### History

|                                |  |
|--------------------------------|--|
| Date of printing               | : 8/31/2015  |
| Date of issue/Date of revision | : 8/31/2015  |
| Date of previous issue         | : No previous validation   |
| Version                        | : 1  |
| Key to abbreviations           | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>UN = United Nations |

**References** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## Section 16. Other information

Information contained within this SDS is only to be distributed as required by law.