


## SECTION 1: Identification

<b>Product identifier</b>	
Product name	Fluoride Masking Agent
Product number	R-0805; R-0805-PL
<b>Recommended use and restrictions</b>	To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.
<b>Manufacturer</b>	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Local: (410) 472-4340 – 8am – 5pm EST Toll-free: (800) 837-8548 – 8am – 5pm EST
<b>Emergency phone number</b>	
CHEMTREC, United States	1-800-424-9300 – 24-hour service
CHEMTREC, International	+1 703-741-5970 – 24-hour service

## SECTION 2: Hazard(s) identification

<b>Physical hazards</b>	Not applicable	
<b>Health hazards</b>	Carcinogenicity	Category 1A
	Sensitization, skin	Category 1
	Specific target organ toxicity, repeat exposure	Category 1
<b>Environmental hazards</b>	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.	
<b>Label elements</b>		
Hazard pictograms		
Signal word	Danger	
Hazard statements	May cause cancer. May cause allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.	
<b>Precautionary statements</b>		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection if contact is likely to occur. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust/fumes/gas/mists/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product.	
Response	IF EXPOSED OR CONCERNED: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. Wash contaminated clothing before reuse. Get medical advice/attention if you feel unwell.	
Storage	Store out of direct sunlight between 36°F–85°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Hazards not otherwise classified</b>	Not applicable	

## SECTION 3: Composition/information on ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	98.0
Beryllium sulfate tetrahydrate	Beryllium sulphate tetrahydrate	7787-56-6	2.0

## SECTION 4: First-aid measures

### If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed. Use pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not use mouth-to-mouth if individual inhaled the substance.

### In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

### In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

### If swallowed

Immediately call a physician or poison control center. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Give oxygen or artificial respiration if needed. Use pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not use mouth-to-mouth if individual ingested the substance.

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

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

### Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

### General information

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

## SECTION 5: Firefighting measures

### Extinguishing media

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Specific hazards arising from the substance or mixture

Fire hazard Not flammable

Explosion hazard Not explosive

Reactivity Hazardous reactions will not occur under normal conditions.

Hazardous combustion products Hazardous gases, sulfur oxides. Other irritating fumes and smoke.

### Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting equipment/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.

Other information Refer to section 9 of the SDS for flammability properties.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mists or vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

### Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

### Methods and material for containment and cleaning up

Ventilate the area. Stop leak if it can be done without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material where this is possible. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water to remove residual contamination. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

## SECTION 7: Handling and storage

### Personal precautions, protective equipment, and emergency procedures

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mists or vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

### Conditions for safe storage, including any incompatibilities

Store out of direct sunlight between 36°F–85°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store away from incompatible materials (refer to section 10 of the SDS).

## SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

#### US ACGIH Threshold Limit Values

Components	Type	Value
Beryllium sulfate tetrahydrate (CAS 7787-56-6)	TWA	0.05 µg/m <sup>3</sup> (skin)

#### US NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Beryllium sulfate tetrahydrate (CAS 7787-56-6)	Ceiling	0.5 µg/m <sup>3</sup>

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Beryllium sulfate tetrahydrate (CAS 7787-56-6)	TWA	2 µg/m <sup>3</sup>
Beryllium sulfate tetrahydrate (CAS 7787-56-6)	Ceiling	5 µg/m <sup>3</sup>
Beryllium sulfate tetrahydrate (CAS 7787-56-6)	Peak (30 min of an 8-hour shift)	25 µg/m <sup>3</sup>

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.

#### Personal protective equipment

Eye/face protection	Wear appropriate chemical safety goggles if contact is likely to occur.
Skin protection	Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.
Body protection	Wear appropriate protective clothing if contact is likely to occur.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	Liquid
Form	Liquid
Color	Clear, colorless
Odor	Odorless
Odor threshold	Not applicable
pH	2.8
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
Specific gravity	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Solubility	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	Hazardous reactions will not occur under normal conditions.
<b>Chemical stability</b>	Stable under recommended handling and storage conditions (refer to section 7 of the SDS).
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials. Do not use in areas without adequate ventilation.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products under normal use.

## SECTION 11: Toxicological information

### Information on toxicological effects

Likely routes of exposure are **skin/eye contact and ingestion**.

<b>Most important symptoms/effects, acute and delayed</b>	Direct skin contact may cause irritation. Symptoms may include redness and itching. Direct eye contact may cause serious irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause cancer.
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**Acute toxicity** This product is not classified as an acute toxicity hazard.

**Skin corrosion/irritation** No data available

**Serious eye damage/eye irritation** No data available

**Respiratory sensitization** No data available

**Skin sensitization** May cause allergic skin reaction

**Germ cell mutagenicity** No data available

**Carcinogenicity** May cause cancer

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Beryllium and Beryllium Compounds, Group 1; Carcinogenic to humans

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Beryllium and Beryllium Compounds; Cancer

#### US National Toxicology Program (NTP) Report on Carcinogens

Beryllium and Beryllium Compounds; Known to be a human carcinogen

**Reproductive toxicity** No data available

**Specific target organ toxicity (single exposure)** No data available

**Specific target organ toxicity (repeated exposure)** Causes damage to organs through prolonged or repeated exposure

**Aspiration hazard** No data available

## SECTION 12: Ecological information

**Ecotoxicity** This product is not classified as environmentally hazardous.

**Persistence and degradability** No data available

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Other adverse effects** Large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

**DOT** Not regulated as dangerous goods

**IATA** Not regulated as dangerous goods

**IMDG** Not regulated as dangerous goods

## SECTION 15: Regulatory information

### US federal regulations

#### CERCLA Hazardous Substance (40 CFR 302.4)

<u>Chemical name</u>	<u>CAS number</u>	<u>Reportable Quantity</u>
Beryllium sulfate tetrahydrate	7787-56-6	10 lbs

#### SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

#### SARA 304 Emergency Release Notification

Not regulated

#### SARA 311/312 Hazardous Chemical

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

#### SARA 313 (TRI reporting)

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

#### TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

### Other federal regulations

#### Clean Air Act (CAA) Section 112(b) Hazardous Air Pollutants (HAPs)

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

#### Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

#### Safe Drinking Water Act (SDWA)

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

## US state regulations

### California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

**WARNING:** This product can expose you to Beryllium sulfate tetrahydrate (beryllium compound), which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Massachusetts Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

### New Jersey Worker and Community Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

### Pennsylvania Worker and Community Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

### Rhode Island Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate tetrahydrate	7787-56-6

## SECTION 16: Other information

### NFPA Rating

Health hazard	3
Fire hazard	0
Reactivity	0
Specific	N/A

### Disclaimer

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### Revision information:

Identification: Emergency phone number

Composition/information on ingredients: %w/w