



SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

Revision: 11/07/2023

SECTION 1: Identification

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

SECTION 2: Hazard(s) identification

Physical hazards	Not applicable	
Health hazards	Acute toxicity, inhalation	Category 4
	Sensitization, skin	Category 1
	Carcinogenicity	Category 1B
	Specific target organ toxicity, repeat exposure	Category 1
Environmental hazards	Acute aquatic toxicity hazard	Category 3
Label elements		
Hazard pictograms		
Signal word	Danger	
Hazard statements	Harmful if inhaled. May cause allergic skin reaction. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life.	
Precautionary statements		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fumes/gas/mists/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release into the environment.	
Response	IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician or poison control center if you feel unwell. IF EXPOSED OR CONCERNED: Get medical advice/attention.	
Storage	Collect spillage.	
Disposal	Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F–85°F.	
	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazards not otherwise classified	Not applicable	
Additional label information	WARNING: Cancer - www.P65Warnings.ca.gov	

SECTION 3: Composition/information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	98.8
Beryllium sulfate	Beryllium sulphate; Beryllium sulfate tetrahydrate	13510-49-1	1.2

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 15 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 15 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.

Most important symptoms and effects, both acute and delayed

Direct skin or eye contact may cause irritation. Symptoms may include redness or itching. Tearing of the eyes or blurred vision may occur. Inhalation may cause respiratory irritation, such as coughing. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Harmful if swallowed.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure.

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	Sulfur oxides.

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 mist or vapor. 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

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. 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 locked up. Keep tightly capped. Store out of direct sunlight between 36°F–85°F. 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 (CAS 13510-49-1), as Be	TLV-TWA	0.05 µg/m ³

US NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Beryllium sulfate (CAS 13510-49-1), as Be	TWA	0.5 µg/m ³

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

Components	Type	Value
Beryllium sulfate (CAS 13510-49-1), as Be	TWA	0.2 µg/m ³
	STEL	2.0 µg/m ³

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 or safety glasses with side shields.
Skin protection	Wear appropriate chemical-resistant gloves and clothing.
Body protection	Wear appropriate protective clothing.
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	3
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)	Not combustible
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 water
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

Information on likely routes of exposure		
Inhalation	Harmful if inhaled. Use in a well-ventilated area.	
Skin contact	Protect exposed skin from contact. Use caution to avoid splashes.	
Eye contact	Avoid close eye contact; Use caution to avoid splashes. Wear eye protection.	
Ingestion	Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly after handling this product.	
Symptoms related to the physical, chemical, and toxicological characteristics	Harmful if inhaled. Refer to section 4 of the SDS for most important symptoms and effects.	
Delayed and immediate effects and chronic effects from short- and long-term exposure		
Acute toxicity	This product is classified as an acute toxicity hazard, oral route.	
Product acute toxicity estimate (ATE)		
ATEmix (Oral)	> 5000 mg/kg	
ATEmix (Dermal)	No data available	
ATEmix (Inhalation)	4.2 mg/L, dust/mists (estimated)	
Component(s)	Species	Acute toxicity data
Beryllium sulfate (CAS 13510-49-1)		
LD50 (Oral)	Rat	82 mg/kg
LD50 (Dermal)	Rabbit	No data available
LC50 (Inhalation)	Rat	0.05 mg/L (estimate)
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 Harmful to aquatic life.

Beryllium sulfate (CAS 13510-49-1)

EC50 Aquatic invertebrates 2.09 mg/L, 48 hr

LC50 Fish 0.2 mg/L, 96 hr

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	13510-49-1	none

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	13510-49-1

SARA 313 (TRI reporting)

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate	13510-49-1

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	13510-49-1

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	13510-49-1

Safe Drinking Water Act (SDWA)

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate	13510-49-1

US state regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)**

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

Massachusetts Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate	13510-49-1

New Jersey Worker and Community Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate	13510-49-1

Pennsylvania Worker and Community Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate	13510-49-1

Rhode Island Right-to-Know Act

<u>Chemical name</u>	<u>CAS number</u>
Beryllium sulfate	13510-49-1

SECTION 16: Other information**NFPA Rating**

Health hazard	2
Fire hazard	0
Reactivity	0
Specific	N/A

Disclaimer

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This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.

