



SAFETY DATA SHEET

1. Identification:

Product Identifier: Fem Magic Part A, Silver Nitrate Solution
Product code: BF8196
Synonym(s): Aqueous Silver Nitrate various dilutions
Recommended use: Manufacture of other chemical products, professional, scientific, and technical activities.
Recommended restrictions: None known.

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.
Address: 187 South Tilley Road
Hatfield, AR 71945
Telephone: (870) 389-6114
Website: www.bphchem.com
E-mail: support@bphchem.com
Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Target Organs-Liver, Kidney Category 2
Serious eye damage/eye irritation Category 2

Label elements:



Signal word: Warning
Hazard statement: Causes serious eye irritation. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure

Precautionary statement:

Prevention Wash face, hands and any exposed skin thoroughly after handling
Do not get in eyes, on skin, or on clothing
Wear eye/face protection
Wear protective gloves
Response Get medical attention/advice if you feel unwell
Storage Store bottles tightly capped and upright. Store in well-ventilated place. Store locked up.
Disposal To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.

Hazard(s) not otherwise classified (HNOC): None identified.

Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Silver Nitrate	7761-88-8	0.1-20
Water	7732-18-5	99.9-80

4. First-aid measures

Inhalation:	Remove person to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion:	Never give anything by mouth to an unconscious person. Do not induce vomiting. Obtain medical attention.
Skin contact:	Flood area with water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing and clean shoes thoroughly before reuse. Get medical attention immediately if symptoms occur.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes while holding lids gently, but firmly, apart. Lift upper and lower lids occasionally to ensure thorough flushing under them. Obtain medical attention.
Most important symptoms/effects, acute and delayed:	No information available.
General information:	No information found.

5. Fire-fighting measures

Suitable extinguishing media:	Foam. Dry powder. Carbon dioxide. Water spray. Sand		
Unsuitable extinguishing media:	No information available.		
Specific hazards arising from the chemical	Keep product and container away from heat and sources of ignition.		
Special protective equipment and precautions for firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.		
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.		
NFPA Codes:	Health: 2	Flammability: 0	Reactivity: 0

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep out of low areas. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material.
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Methods and materials for containment and cleaning up:	Ventilate area. Wear protective clothing. Use an absorbent material such as sand, sawdust, or vermiculite to absorb small spills or any leakage that cannot be recovered for recycling. Wash area thoroughly with water after recovering released material. Avoid dust formation. Minimize dust generation and accumulation. For waste disposal, see section 13 of the SDS.
Environmental precautions:	Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses, or onto the ground. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling:	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Avoid dust formation.
Conditions for safe storage, including any incompatibilities:	Store bottles tightly capped and upright. Keep in a cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure Guidelines:	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering measures:	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal protective equipment:	
Eye/face protection:	Wear protective eyeglasses or chemical safety goggles.
Skin and body protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance:	Clear, colorless liquid
Odor:	Odorless
Odor threshold:	No data available
Vapor Pressure (mm Hg):	No data available
Vapor density (Air = 1):	No data available
pH:	No data available
Relative density:	No data available
Melting point/freezing point:	No data available
Solubility in Water:	Infinite
Boiling Point (°F):	No data available
Flash point:	No data available
Evaporative Rate (H₂O = 1):	Varies with concentration of solution.
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits	
Flammability limit - lower	No data available

Flammability limit - upper	No data available
Explosive limit - lower	No data available
Explosive limit - upper	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Other information:	
Specific Gravity (H₂O = 1):	Varies with concentration of solution.
Percent Volatile by Volume:	No data available

10. Stability and reactivity

Reactivity:	None known based on information available.
Chemical stability:	Stable under ordinary conditions of use and storage.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Extreme heat, contact with incompatible materials, and dust formation.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Nitrogen oxides (NO _x)

11. Toxicological information

Information on likely routes of exposure:

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Inhalation of dusts may cause irritation to the respiratory tract.
Skin Contact:	No adverse effects due to skin contact are expected.
Eye Contact:	Causes serious irritation to the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity No acute toxicity information is available for this product.

<u>Component</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
Silver Nitrate	1173 g/kg (rat)	No data available	No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause skin irritation and discomfort.
Serious eye damage/irritation	May cause serious eye damage
Respiratory Sensitization	No data available.
Skin sensitization	No data available.

Carcinogenicity	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
Mutagenic effects	No data available.
Reproductive effects	No data available.
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	Prolong absorption of silver compounds can lead to grayish blue discoloration of skin (argyria)

12. Ecological information

Ecotoxicity:	Do not empty into drains. Harmful to aquatic life with long lasting effects.
Persistence and degradability:	Biodegradability: not applicable
Bioaccumulation/ Accumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13. Disposal considerations

Waste disposal methods:	To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.
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14. Transport information

DOT:	Not regulated as dangerous goods.
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15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not applicable
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – Yes
	Delayed Hazard – No
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard – No

Other Federal regulations

Clean Air Act	Not applicable
Clean Water Act	Not applicable
California Prop 65	This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

Revision date

July 13, 2021

Disclaimer

The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.

1. Identification:

Product Identifier: Fem Magic Part B, Sodium Thiosulfate Solution
Product code: BF8197
Synonym(s): Sodium Thiosulfate Solution
Recommended use: Manufacture of other chemical products, professional, scientific, and technical activities.
Recommended restrictions: None known.

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.
Address: 187 South Tilley Road
Hatfield, AR 71945
Telephone: (870) 389-6114
Website: www.bphchem.com
E-mail: support@bphchem.com
Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: Not a hazardous substance or mixture.
Label elements: Not a hazardous substance or mixture.
Signal word: Not a hazardous substance or mixture.
Hazard statement: This mixture does not meet the criteria for classification.
Precautionary statement:
Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight.
Disposal Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Sodium Thiosulfate, Pentahydrate	10102-17-7	0.1 - 25
Water	7732-18	Balance

4. First-aid measures

Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion:	Never give anything by mouth to an unconscious person. Obtain medical assistance.
Skin contact:	Immediately flush with cool, running water for at least 15 minutes. Seek medical attention if irritation occurs
Eye contact:	Immediately flush with cool, running water for at least 15 minutes, occasionally lifting upper and lower lids to ensure rinsing under them. Seek medical aid if irritation continues.
Most important symptoms/effects, acute and delayed:	Not A hazardous substance or mixture.
General information:	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media:	Any media necessary for extinguishing the surrounding fire.
Unsuitable extinguishing media:	No information available.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Wear approved self-contained protective clothing.
Fire-fighting equipment/instructions	Any media necessary for extinguishing the surrounding fire.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary personnel away.
Methods and materials for containment and cleaning up:	Wash spill area with soap and water. Prevent further leakage or spillage if safe to do so. Never return spills to original containers for reuse. For waste disposal, see section 13 of the SDS.
Environmental precautions:	None identified.

7. Handling and storage

Precautions for safe handling:	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities:	Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight. Store away from incompatible materials.

8. Exposure controls/personal protection

Exposure Guidelines:

<u>Component</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Sodium Thiosulfate, Pentahydrate	None established	None established

Engineering measures: Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Eye/face protection:	Wear protective eyeglasses or chemical safety goggles.
Skin and body protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance:	Clear, colorless solution
Odor:	Slight disulfide odor
Odor threshold:	No data available.
Vapor Pressure (mm Hg):	No data available.
Vapor density (Air = 1):	No data available.
pH:	No data available.
Relative density:	No data available.
Melting point/freezing point:	No data available.
Solubility in Water:	Complete
Boiling Point (°F):	No data available.
Flash point:	Non-flammable.
Evaporative Rate (H₂O = 1):	No data available.
Flammability (solid, gas):	No data available.
Upper/lower flammability or explosive limits	
Flammability limit - lower	No data available.
Flammability limit - upper	No data available.
Explosive limit - lower	No data available.
Explosive limit - upper	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Other information:	
Specific Gravity (H₂O = 1):	No data available.
Percent Volatile by Volume:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	None known.
Incompatible materials:	May react with iodine, acids, lead, mercury and silver salts.
Hazardous decomposition products:	No data available

11. Toxicological information

Information on likely routes of exposure:

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	No data available.
Skin Contact:	No adverse effects due to skin contact are expected.
Eye Contact:	May cause mild irritation.

Information on toxicological effects

Acute toxicity	No data available.		
<u>Component</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
Sodium Thiosulfate, Pentahydrate	No data	No data	No data

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause irritation to skin on contact.
Serious eye damage/irritation	May cause irritation to eyes on contact.
Respiratory Sensitization	No data available.
Skin sensitization	No data available.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
Mutagenic effects	No data available.
Reproductive effects	No data available.
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	No data available.

12. Ecological information

Ecotoxicity:	Not expected to be harmful to aquatic animals.
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Persistence and degradability:	No data available
Bioaccumulation/ Accumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No adverse environmental effects (e.g. ozone depletion, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Waste disposal methods:	To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.
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14. Transport information

DOT:	Not regulated as dangerous goods.
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15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated
CERCLA Hazardous Substances List (40 CFR 302.4)	Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – No
	Delayed Hazard – No
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard – No

Other Federal regulations

Clean Air Act	Not applicable
Clean Water Act	Not applicable
California Prop 65	This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

Revision date	January 3, 2023
Disclaimer	The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.



SAFETY DATA SHEET

1. Identification:

Product Identifier: Fem Magic Part B (Sodium Thiosulfate)
Product code: BF8195
Synonym(s): Starch Indicator Solution
Recommended use: Manufacture of other chemical products, professional, scientific, and technical activities.
Recommended restrictions: None known.

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.
Address: 187 South Tilley Road
Hatfield, AR 71945
Telephone: (870) 389-6114
Website: www.bphchem.com
E-mail: support@bphchem.com
Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: Not a hazardous substance or mixture.
Label elements: Not a hazardous substance or mixture.
Signal word: Not a hazardous substance or mixture.
Hazard statement: This mixture does not meet the criteria for classification.
Precautionary statement:
Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight.
Disposal Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Sodium Thiosulfate, Pentahydrate	10102-17-7	<1%
Water	7732-18	Balance

4. First-aid measures

Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion:	Never give anything by mouth to an unconscious person. Obtain medical assistance.
Skin contact:	Immediately flush with cool, running water for at least 15 minutes. Seek medical attention if irritation occurs
Eye contact:	Immediately flush with cool, running water for at least 15 minutes, occasionally lifting upper and lower lids to ensure rinsing under them. Seek medical aid if irritation continues.
Most important symptoms/effects, acute and delayed:	Not A hazardous substance or mixture.
General information:	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media:	Any media necessary for extinguishing the surrounding fire.
Unsuitable extinguishing media:	No information available.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Wear approved self-contained protective clothing.
Fire-fighting equipment/instructions	Any media necessary for extinguishing the surrounding fire.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary personnel away.
Methods and materials for containment and cleaning up:	Wash spill area with soap and water. Prevent further leakage or spillage if safe to do so. Never return spills to original containers for reuse. For waste disposal, see section 13 of the SDS.
Environmental precautions:	None identified.

7. Handling and storage

Precautions for safe handling:	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities:	Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight. Store away from incompatible materials.

8. Exposure controls/personal protection

Exposure Guidelines:

<u>Component</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Sodium Thiosulfate, Pentahydrate	None established	None established

Engineering measures: Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Eye/face protection:	Wear protective eyeglasses or chemical safety goggles.
Skin and body protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance:	Clear, colorless solution
Odor:	Slight disulfide odor
Odor threshold:	No data available.
Vapor Pressure (mm Hg):	No data available.
Vapor density (Air = 1):	No data available.
pH:	No data available.
Relative density:	No data available.
Melting point/freezing point:	No data available.
Solubility in Water:	Complete
Boiling Point (°F):	No data available.
Flash point:	Non-flammable.
Evaporative Rate (H₂O = 1):	No data available.
Flammability (solid, gas):	No data available.
Upper/lower flammability or explosive limits	
Flammability limit - lower	No data available.
Flammability limit - upper	No data available.
Explosive limit - lower	No data available.
Explosive limit - upper	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Other information:	
Specific Gravity (H₂O = 1):	No data available.
Percent Volatile by Volume:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	None known.
Incompatible materials:	May react with iodine, acids, lead, mercury and silver salts.
Hazardous decomposition products:	No data available

11. Toxicological information**Information on likely routes of exposure:**

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	No data available.
Skin Contact:	No adverse effects due to skin contact are expected.
Eye Contact:	May cause mild irritation.

Information on toxicological effects

Acute toxicity No data available.

<u>Component</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
Sodium Thiosulfate, Pentahydrate	No data	No data	No data

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause irritation to skin on contact.
Serious eye damage/irritation	May cause irritation to eyes on contact.
Respiratory Sensitization	No data available.
Skin sensitization	No data available.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
Mutagenic effects	No data available.
Reproductive effects	No data available.
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	No data available.

12. Ecological information

Ecotoxicity:	Not expected to be harmful to aquatic animals.
Persistence and degradability:	No data available

Bioaccumulation/ Accumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No adverse environmental effects (e.g. ozone depletion, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Waste disposal methods:	To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.
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14. Transport information

DOT:	Not regulated as dangerous goods.
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15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated
CERCLA Hazardous Substances List (40 CFR 302.4)	Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – No
	Delayed Hazard – No
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard – No

Other Federal regulations

Clean Air Act	Not applicable
Clean Water Act	Not applicable
California Prop 65	This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

Revision date	January 3, 2023
Disclaimer	The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.