

AeroBarrier X1

Safety Data Sheet



According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 10 October 2024 Revision date: 26 September 2024 Supersedes: 07 June 2019

SECTION 1: Identification

Material Name: AeroBarrier X1 Sealant	Manufacturer/Importer/Supplier/ Distributor Information: AeroSeal 225 Byers Road. Miamisburg, OH 45342	Telephone: (877) 349-3828 Mon-Fri: 8:00 a.m. to 5:00 p.m. ET
Material: P49667 805		Transportation Emergency Telephone Numbers: 1-800-424-9300 (US); 1-613-996-6666 (Canada)
Recommended Use and Restriction on Use: Recommended use: Sealant Restrictions on use: Not known.	Contact Person: AeroSeal	

SECTION 2: Hazard(s) Identification

Hazard Classification

Environmental Hazards	Acute hazards to the aquatic environment	Category 3
Unknown Toxicity - Environment	Acute hazards to the aquatic environment	99.08 %
	Chronic hazards to the aquatic environment	99.08 %

Label Elements

Hazard Symbol	No symbol.
Signal Word	No signal word.
Hazard Statement	Harmful to aquatic life.

Precautionary Statements

Prevention	Avoid release to the environment.
Signal Word	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Hazard(s) Not Otherwise Classified (HNOC)	None.

SECTION 3: Composition and Information On Ingredients

Chemical Identity	CAS No.	Content in percent (%)*
Ammonia	7664-41-7	0.01 - <0.1%

*All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First-Aid Measures

Description of necessary first-aid measures

Inhalation	Move to fresh air.
Skin Contact	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Eye Contact	Rinse immediately with plenty of water.
Ingestion	Rinse mouth thoroughly.
Personal Protection for First-aid Responders	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Most important symptoms/effects, acute and delayed

Symptoms	May cause skin and eye irritation.
Hazards	No data available.

Most important symptoms/effects, acute and delayed

Treatment	Get medical attention if symptoms occur.
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SECTION 5: Firefighting Measures

General Fire Hazards	No unusual fire or explosion hazards noted.
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Suitable (and unsuitable) extinguishing media

Suitable Extinguishing Media	Do not use water jet as an extinguisher, as this will spread the fire.
Unsuitable Extinguishing Media:	During fire, gases hazardous to health may be formed.
Specific Hazards Arising from the Chemical:	During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special Firefighting Procedures:	No data available.
Special Protective Equipment for Firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	No data available.
Accidental Release Measures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Methods and Material for Containment and Cleaning Up:	Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

SECTION 7: Handling and Storage

Handling

Technical Measures (e.g., Local and General ventilation):	Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.
Safe Handling Advice:	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Contact Avoidance Measures:	No data available.
Hygiene Measures:	Observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Storage

Safe Storage Conditions:	Store away from incompatible materials. Store in original tightly closed container.
Safe Packaging Materials:	No data available.

SECTION 8: Exposure Controls and Personal Protection

Control Parameters Occupational Exposure Limits (OEL)

Chemical Identity	Type	Exposure Limit Values	Source
Ammonia	TWA	25 ppm	U.S. ACGIH Threshold Limit Values, as amended (2011)
	STEL	35 ppm	U.S. ACGIH Threshold Limit Values, as amended (2011)
	PEL	50 ppm 35 mg/m ³	U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)

Chemical Identity	Type	Exposure Limit Values	Source
Propylene Glycol - Aerosol	TWA	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Propylene Glycol - Vapor and Aerosol	TWA	50 ppm 155 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Amorphous Silica - Respirable Fraction	TWA	3 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2020)
Amorphous Silica - Inhalable Fraction	TWA	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Amorphous Silica - Respirable Particles	TWA	3 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Amorphous Silica - Total Dust	TWA	10 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
Amorphous Silica - Respirable Fraction	TWA	3 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Amorphous Silica - Total Dust	TWA	10 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2020)
Amorphous Silica - Inhalable Particles	TWA	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

SECTION 8: Exposure Controls and Personal Protection - Continued

Individual protection measures, such as personal protective equipment

Eye/face Protection:	Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.
Skin Protection	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Skin and Body Protection:	No data available.
Respiratory Protection:	Observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Hygiene Measures:	Observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

SECTION 9: Physical and Chemical Properties

Properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	White
Odor:	Mild
Odor threshold:	No data available.
pH:	6.90 - 7.50
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	> 100 °C; > 212 °F
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No

SECTION 9: Physical and Chemical Properties - Continued

Properties	
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.038
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	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.

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	Avoid contact with acids and oxidizing substances. Bases, alkalis (organic). Isocyanates.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological Information

Information on likely routes of exposure

- Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
- Skin Contact:** Moderately irritating to skin with prolonged exposure.
- Eye Contact:** Eye contact is possible and should be avoided.
- Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation:** No data available.
- Skin Contact:** No data available.
- Eye Contact:** No data available.
- Ingestion:** No data available.

Information on toxicological effects - Acute toxicity (list all possible routes of exposure)

- Inhalation:** No data available.
- Skin Contact:** No data available.
- Eye Contact:** No data available.
- Ingestion:** No data available.

SECTION 11: Toxicological Information - Continued

Information on toxicological effects

Acute Toxicity (list all possible routes of exposure)

Oral Product: Not classified for acute toxicity based on available data.

Specified Substance(s):
Ammonia LD 50 (Rat): 350 mg/kg

Dermal Product: Not classified for acute toxicity based on available data

Inhalation Product:

Specified Substance(s):
Ammonia
LC 50 (Rat): 9,850 mg/m³
LC 50 (Rat): 7,035 mg/m³
LC 50 (Rat): 18,693 mg/m³
LC 50 (Rat): 7,939 mg/m³
LC 50 (Rat): 11,342 mg/m³"q

Repeated Dose Toxicity Product: No data available.

Skin Corrosion/Irritation Product: No data available.

Serious Eye Damage/Eye Irritation Product: No data available.

Respiratory or Skin Sensitization Product: No data available.

Carcinogenicity Product: No data available.

International Agency for Research on Cancer (IARC) Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified

U.S. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as Amended: No carcinogenic components identified

Germ Cell Mutagenicity

In Vitro Product: No data available.

In Vivo Product: No data available.

Reproductive Toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects:

Constituents of this product may include crystalline silica which, if in inhalable form, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a Group I Carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

SECTION 12: Ecological Information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified Substance(s):

Ammonia
LC 50 (Cyprinus carpio, 48 h): 1.6 mg/l
LC 50 (Oncorhynchus mykiss, 96 h): 11 - 48 mg/l
LC 50 (Oncorhynchus gorboscha, 96 h): 0.083 mg/l
LC 50 (Lepomis cyanellus, 96 h): 0.5 mg/l
LC 50 (Pimephales promelas, 96 h): 0.75 - 3.4 mg/l

Acute hazards to the aquatic environment:

Aquatic Invertebrates	
Product:	No data available.
Specified Substance(s): Ammonia	LC 50 (10 d): 0.651 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (10 d): 0.72 mg/l Experimental result, Supporting study EC 10 (Acaria sinjensis, 48 h): 5 mg/l Experimental result, Key study LC 50 (Heliosoma trivolvis, 24 h): 392.94 mg/l Experimental result, Supporting study LC 50 (10 d): 1.58 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Chronic hazards to the aquatic environment:

Fish	
Product:	No data available.
Specified Substance(s): Ammonia	NOEL : 1.2 mg/l read-across from supporting substance (structural analogue or surrogate) NOEL (Colorado Pikeminnow (Ptychocheilus lucius): Razorback Sucker (Xyrauchen texanus); Fathead Minnow (Pimephales promelas)): 0.31 mg/l experimental result NOEL (Ictalurus punctatus): < 48 µg/l experimental result NOEL (Colorado Pikeminnow (Ptychocheilus lucius): Razorback Sucker (Xyrauchen texanus); Fathead Minnow (Pimephales promelas)): 0.29 mg/l experimental result NOEL (Lepomis cyanellus): 0.22 mg/l experimental result

Aquatic Invertebrates	
Product:	No data available.
Specified Substance(s): Ammonia	LC 50 (10 d): 0.651 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (10 d): 0.72 mg/l Experimental result, Supporting study EC 10 (Acaria sinjensis, 48 h): 5 mg/l Experimental result, Key study LC 50 (Heliosoma trivolvis, 24 h): 392.94 mg/l Experimental result, Supporting study LC 50 (10 d): 1.58 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Persistence and Degradability

Biodegradation Product: No data available.

**Biological Oxygen Demand (BOD) /
Chemical Oxygen Demand (COD) Ratio Product:** No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF) Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified Substance(s):

Ammonia Log Kow: -2.66

Mobility in soil:

No data available.

Other adverse effects:

Harmful to aquatic organisms.

SECTION 13: Disposal Considerations

Disposal Methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

SECTION 14: Transport Information

Transportation of Dangerous Goods (TDG): Not Regulated

Code of Federal Regulations / Department of Transportation: Not Regulated

International Maritime Dangerous Goods (IMDG): Not Regulated

SECTION 15: Regulatory Information

U.S. Federal Regulations

Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

U.S. TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E) None present or none present in regulated quantities.

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as Amended None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity: Ammonia
Reportable Quantity: 100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Not classified
	Not classified

U.S. Emergency Planning and Community Right-to-Know Act (EPCRA) (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances	Not Regulated.
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U.S. Environmental Protection Agency (EPA) EPCRA SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required	Not Regulated.
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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ammonia	lbs
Ammonia	lbs

Clean Water Act” Section 311 Hazardous Substances (40 CFR 117.3)	None present or none present in regulated quantities.
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U.S. State Regulations

U.S. California Proposition 65



WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

International regulations

Montreal Protocol	Not applicable
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Stockholm Convention	Not applicable
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Rotterdam Convention	Not applicable
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Kyoto Protocol	Not applicable
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VOC:

Regulatory VOC (Less Water and Exempt Solvent):	10 g/l
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VOC Method 310:	0.17 %
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Inventory Status:

Australian Inventory of Industrial Chemicals (AIIC):	One or more components in this product are not listed on or exempt from the Inventory.
Canada Domestic Substances List (DSL):	One or more components in this product are not listed on or exempt from the Inventory.
Canada Non-Domestic Substances List (NDSL):	One or more components in this product are not listed on or exempt from the Inventory.
Ontario Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
China Inventory Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Existing and New Chemical Substances (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Industrial Safety and Health Law (ISHL) List:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inventory (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Mexico National Inventory of Chemical Substances (INSQ):	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals (NZIoC):	One or more components in this product are not listed on or exempt from the Inventory.
Philippine Inventory of Chemicals and Chemical Substances (PICCS):	One or more components in this product are not listed on or exempt from the Inventory.
Taiwan Chemical Substance Inventory (TCSI):	One or more components in this product are not listed on or exempt from the Inventory.
U.S. Toxic Substances Control Act (TSCA):	One or more components in this product are not listed on or exempt from the Inventory.
Switzerland New Substances Notified/Registered:	One or more components in this product are not listed on or exempt from the Inventory.
Thailand Existing Chemicals Inventory (TECI):	One or more components in this product are not listed on or exempt from the Inventory.
Vietnam National Chemical Inventory (NCI):	One or more components in this product are not listed on or exempt from the Inventory.
European Chemicals Agency (EC) Inventory:	One or more components in this product are not listed on or exempt from the Inventory.

SECTION 16: Other Information, including date of preparation or last revision

Revision Date: 09/26/2024

Version #: 1.0

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.