



VAI WFI QUALITY WATER AEROSOL

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

VELTEK ASSOCIATES, INC.

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Supersedes: 02/28/2017

Version: 5.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : VAI WFI QUALITY WATER AEROSOL
 Product code : SDS VEL-028-A

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleaner
 Industrial use

1.3. Supplier

Veltek Associates, Inc.
 15 Lee Blvd
 Malvern, PA 19355-1234 USA
 Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
 E-mail: vai@sterile.com

In Canada distributed by:
 Canada Clean Room (CCR)
 200 Terence Matthews
 Kanata, ONT K2M 2C6, Canada
 Telephone: 888-595-8070

1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061
 1-866-928-0789 (toll free)
 Canada: 1-800-579-7421 (toll free)
 Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Simple Asphyxiant : May displace oxygen and cause rapid suffocation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) : Warning
 Hazard statements (GHS US) : May displace oxygen and cause rapid suffocation

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Pressurized container: may burst if heated.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	(CAS-No.) 7732-18-5	100	Not classified
Nitrogen	(CAS-No.) 7727-37-9	< 1	Simple Asphy

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*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- | | |
|---------------------------------------|---|
| First-aid measures general | : If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Not required for normal conditions of use. If symptoms develop, obtain medical attention. |
| First-aid measures after skin contact | : Not required for normal conditions of use. If symptoms develop, obtain medical attention. |
| First-aid measures after eye contact | : Not required for normal conditions of use. If symptoms develop, obtain medical attention. |
| First-aid measures after ingestion | : Not required for normal conditions of use. If symptoms develop, obtain medical attention. |

4.2. Most important symptoms and effects (acute and delayed)

- | | |
|---|---|
| Potential Adverse human health effects and symptoms | : Not expected to present a significant hazard under anticipated conditions of normal use. In high concentrations may cause asphyxiation. |
|---|---|

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- | | |
|--------------------------------|---|
| Suitable extinguishing media | : Use extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | : None known. |

5.2. Specific hazards arising from the chemical

- | | |
|------------------|---|
| Fire hazard | : Not flammable. |
| Explosion hazard | : Pressurized container: may burst if heated. |

5.3. Special protective equipment and precautions for fire-fighters

- | | |
|--------------------------------|---|
| Firefighting instructions | : Exercise caution when fighting any chemical fire. Move containers from fire area if you can do it without risk. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- | | |
|----------------------|---|
| Emergency procedures | : Ventilate area. Evacuate unnecessary personnel. |
|----------------------|---|

6.1.2. For emergency responders

- | | |
|----------------------|-------------------|
| Emergency procedures | : Ventilate area. |
|----------------------|-------------------|

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- | | |
|-------------------------|---|
| Methods for cleaning up | : Liquid: Not applicable. Dispose used or damaged aerosol cans at permitted disposal sites. |
|-------------------------|---|

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|--|
| Precautions for safe handling | : Keep away from heat. Pressurized container: may burst if heated. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety practice. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|------------------------|--|
| Storage conditions | : Keep away from heat. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep in a cool, well-ventilated place. |
| Incompatible materials | : Water-reactive materials. |

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nitrogen (7727-37-9)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Nitrogen
Remark (ACGIH)	Simple Asphyxiant
Regulatory reference	ACGIH 2019
Canada (Ontario) - Occupational Exposure Limits	
Notations and remarks	Simple asphyxiant
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833

8.2. Appropriate engineering controls

- Appropriate engineering controls : Use only in well ventilated areas.
Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Not required for normal conditions of use.

Hand protection:

Not required for normal conditions of use

Eye protection:

Not required under normal use. Wear goggles or safety glasses with side shields if contact with the eyes is possible

Skin and body protection:

Not required for normal conditions of use

Respiratory protection:

Not required for normal conditions of use

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Direct prolonged contact with propellant can cause frostbite.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, Colorless. Aerosol.
Color	: Clear Colorless
Odor	: Odorless
Odor threshold	: No data available
pH	: 6 – 7
Melting point	: 0 °C (32 °F)
Freezing point	: No data available
Boiling point	: 100 °C (212 °F)
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable

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Relative density	: 1
Solubility	: Water: 100 % (Miscible)
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Not explosive.
Oxidizing properties	: Not oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Pressurized container: may burst if heated.

10.4. Conditions to avoid

Keep away from heat. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5. Incompatible materials

Water-reactive materials.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: 6 – 7
Serious eye damage/irritation	: Not classified pH: 6 – 7
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Not expected to present a significant hazard under anticipated conditions of normal use. In high concentrations may cause asphyxiation.

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SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

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Persistence and degradability	No data available.

12.3. Bioaccumulative potential

VAI WFI QUALITY WATER AEROSOL	
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

VAI WFI QUALITY WATER AEROSOL	
Ecology - soil	No data available.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1950 Aerosols, 2.2
UN-No.(DOT) : UN1950
Proper Shipping Name (DOT) : Aerosols
Transport hazard class(es) (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Packaging Non Bulk (49 CFR 173.xxx) : None
DOT Packaging Bulk (49 CFR 173.xxx) : None
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : A
DOT Vessel Stowage Other : 25, 87, 126
Emergency Response Guide (ERG) Number : 126
Special transport precautions : No special precautions required.

Transportation of Dangerous Goods

Transport document description : UN1950 AEROSOLS, 2.2
UN-No. (TDG) : UN1950
Proper Shipping Name (Transportation of Dangerous Goods) : AEROSOLS
TDG Primary Hazard Classes : 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.

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TDG Special Provisions : 80, 107
Explosive Limit and Limited Quantity Index : 1 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 75 L

Transport by sea

Transport document description (IMDG) : UN 1950 AEROSOLS, 2.2
UN-No. (IMDG) : 1950
Proper Shipping Name (IMDG) : AEROSOLS
Class (IMDG) : 2 - Gases

Air transport

Transport document description (IATA) : UN 1950 Aerosols, non-flammable, 2.2
UN-No. (IATA) : 1950
Proper Shipping Name (IATA) : Aerosols, non-flammable
Class (IATA) : 2

SECTION 15: Regulatory information

15.1. US Federal regulations

VAI WFI QUALITY WATER AEROSOL	
SARA Section 311/312 Hazard Classes	Health hazard - Simple asphyxiant
Nitrogen (7727-37-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Health hazard - Simple asphyxiant
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List)

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Nitrogen(7727-37-9)	U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Revision date : 03/09/2020
Data sources : US OSHA HazCom (GHS) 25 May 2012.

Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number

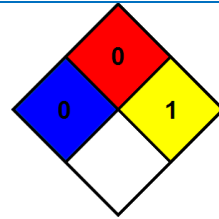
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	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	OECD (Organisation for Economic Co-operation and Development)
	OSHA (Occupational Safety and Health Administration) (US)
	PBT (Persistent, Bioaccumulative and Toxic)
	QSAR (Quantitative Structure-Activity Relationship)
	SADT (Self-Accelerating Decomposition Temperature)
	STEL (Short Term Exposure Limit)
	TSCA (Toxic Substances Control Act) (US)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

- NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



- Hazard Rating
- Health : 0 Minimal Hazard - No significant risk to health
- Flammability : 0 Minimal Hazard - Materials that will not burn
- Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Indication of changes:

Section	Changed item	Change	Comments
1	Identification	Modified	
5	Fire fighting measures	Modified	
6	Accidental release measures	Modified	
7	Handling and storage	Modified	
8	Exposure controls / Personal protection equipment	Modified	
10	Stability and reactivity	Modified	
14	Transport information	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	

SDS US (GHS HazCom 2012)

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