

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 26-Sep-2024 Revision Date N/A Revision Number Initial

## 1. Identification

**Product identifier** 

Product Name TideForce™ 316

Other means of identification

Product Code(s) TF-316

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Water treatment chemical, Flocculant and coagulant

Restrictions on use None known

Details of the supplier of the safety data sheet

## Supplier Address

Tidal Vision 3710 Iron Gate Rd. Bellingham, WA 98226 Telephone #: 360-603-7676

**E-mail** customerservice@tidalvisionusa.com

**Emergency telephone number** 

Emergency telephone Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

<u>Classification</u> Acute aquatic hazard category 3

### **Hazards not otherwise classified (HNOC)**

Not applicable.

### Label elements

None

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**Hazard statements** H402- Harmful to aquatic life.

Other information See section 12 for aquatic toxicity data.

## 3. Composition/information on ingredients

#### **Substance**

Not applicable.

#### **Mixture**

Chemical name	CAS No	Weight-%	Trade secret
Organic acid	Trade secret	< 10	*
Chitosan salt	Trade secret	<15	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

### **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and afterwards drink plenty of water.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with eyes. Wear

personal protective clothing (see section 8).

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

**Symptoms** None known.

**Effects of Exposure** No information available.

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

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

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**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous combustion products Carbon oxides.

**Explosion data** 

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 6. Accidental release measures

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

**Personal precautions**Use personal protective equipment as required. Avoid contact with eyes.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike to contain spill.

Methods for cleaning up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

## 7. Handling and storage

## Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protective equipment as required. Wash hands thoroughly after handling.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

#### **Control parameters**

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Organic acid	STEL: 15 ppm	TWA: 10 ppm	IDLH: 50 ppm
	TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>
		(vacated) TWA: 25 mg/m <sup>3</sup>	STEL: 15 ppm
			STEL: 37 mg/m <sup>3</sup>

#### **Appropriate engineering controls**

Engineering controls Showers

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Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection** No protective equipment is needed under normal use conditions.

**Skin and body protection**No protective equipment is needed under normal use conditions.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Remarks • Method

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes.

**Values** 

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance Clear to amber liquid

Physical state Liquid

**Property** 

ColorClear to amberOdorSlight vinegarOdor thresholdNo data available

No data available pН pH (as aqueous solution) 3-4 Melting point / freezing point No data available Initial boiling point and boiling range No data available Flash point No data available No data available **Evaporation rate Flammability** No data available Flammability Limit in Air Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available No data available Vapor pressure

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Vapor density No data available

Relative density

No data available

Water solubility No data available

Solubility(ies) No data available

Partition coefficient No data available

Autoignition temperature No data available

Decomposition temperature No data available

Kinematic viscosity

No data available

Dynamic viscosity

No data available

Other information

Explosive properties
Oxidizing properties
No information available
VOC content
No information available
Liquid Density
No information available
Bulk density
No information available

## 10. Stability and reactivity

**Reactivity** None under normal use conditions.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid**None known based on information supplied.

Incompatible materials None known based on information supplied.

Hazardous decomposition products Carbon oxides.

## 11. Toxicological information

#### Information on likely routes of exposure

**Product Information** 

**Inhalation** No known effects under normal use conditions.

**Eye contact** No known effects under normal use conditions.

**Skin contact** No known effects under normal use conditions.

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**Ingestion** No known effect based on information supplied.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known.

Acute toxicity

#### **Numerical measures of toxicity**

No information available **Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Organic acid	= 3310 mg/kg (Rat)	= 1060 mg/kg ( Rabbit )	= 11.4 mg/L (Rat) 4 h

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

**Skin corrosion/irritation**No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

## 12. Ecological information

**Ecotoxicity** 

The environmental impact of this product has not been fully investigated.

	Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	
	TideForce™316	-	LC50=177 mg/L (96h,	-	LC50 85.1mg/L (48h, C.
			O. Mykiss)		Dubia)
Γ	Organic acid	-	LC50: =79mg/L (96h,	-	EC50: =65mg/L (48h,
			Pimephales promelas)		Daphnia magna)
			LC50: =75mg/L (96h,		
			Lepomis macrochirus)		

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

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**Component Information** 

Chemical name	Partition coefficient	
Organic acid	-0.17	

Other adverse effects No information available.

## 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

**products** environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California

as a hazardous waste.

## 14. Transport information

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

### 15. Regulatory information

#### **International Inventories**

Contact supplier for inventory compliance status

## **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Organic acid	5000 lb	-	-	X

## **CERCL**A

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

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Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Organic acid	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

#### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Organic acid	X	X	X

#### **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPA Health hazards 1 Flammability 0 Instability 0 Special hazards -

Health hazards 1 Flammability 0 Physical hazards 0 Personal protection X

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

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Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

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**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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