

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 11-Apr-24	Revision Date	6-Nov-24	Revision Number 1
1. Identification			
Product identifier			
Product Name	TideForce™ TFZ-812		
Other means of identification			
Product Code(s)	TFZ-812		
Synonyms	Synonyms None		
Recommended use of the chemica	l and restrictions on use		
Recommended use	Water treatment chemical	l, Flocculant and coagulant, research chem	lical
Restrictions on use None known			
Details of the supplier of the safety	v data sheet		
<u>Supplier Address</u> Tidal Vision 3710 Iron Gate Rd. Bellingham, WA 98226 Telephone #: 360-603-7676			
<u>E-mail</u>	customerservice@tidalvis	ionusa.com	
Emergency telephone number			
Emergency telephone	Chemtrec 1-800-424-930	0	
2. Hazard(s) identification			
Classification			
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).			

Hazards not otherwise classified (HNOC) Not applicable.

Label elements

Hazard statements

Not classified.

Other information

No information available.

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	*

*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	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	o physicians Treat symptomatically.	
5. Fire-fighting measures		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	

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 impac Sensitivity to static discharge	t None. None.
Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. Accidental release measures

precautions for fire-fighters

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	TWA: 10 ppm TWA: 25 mg/m ³ (vacated) TWA: 10 ppm	IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m ³
		(vacated) TWA: 25 mg/m ³	STEL: 15 ppm STEL: 37 mg/m ³

Appropriate engineering controls

Engineering controls Showers

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Information on basic physical and chemical properties				
Appearance	Low viscosity amber liquid			
Physical state	Liquid			
Color	amber			
Odor	Slight vinegar			
Odor threshold	No data available			
Property	Values			
рН				
pH (as aqueous solution)				
Melting point / freezing point				
Initial boiling point and boiling rang	je			
Flash point				
Evaporation rate				
Flammability				
Flammability Limit in Air				
Upper flammability or explosive	limits			
Lower flammability or explosive	limits			
Vapor pressure				
Vapor density				
Relative density				
Water solubility				
Solubility(ies)				
Partition coefficient				
Autoignition temperature				
Decomposition temperature				
Kinematic viscosity				
Dynamic viscosity				
Other information				
Explosive properties	No information available			
Oxidizing properties	No information available			
Softening point	No information available			
Molecular weight	No information available			

No information available

Remarks • Method

No data available 4.0-4.5 No data available No data available No data available No data available No data available

No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available

VOC content

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.
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

. (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	
Organic acid	-	LC50: =79mg/L (96h, Pimephales promelas) LC50: =75mg/L (96h, Lepomis macrochirus)	-	EC50: =65mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

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 products	Dispose of in accordance with local regulations. Dispose of waste in accordance with 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	-	-	Х

<u>CERCLA</u>

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).

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	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 1 Health hazards 1	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend to abbre	eviations and acronyms	used in the safe	ty data sł	neet	
TWA TWA	KPOSURE CONTROLS/P A (time-weighted average) imum limit value		TEL	STEL (Short Te Skin designation	rm Exposure Limit) n
Agency for Toxic Substa U.S. Environmental Pro European Food Safety / EPA (Environmental Pro Acute Exposure Guideli U.S. Environmental Pro U.S. Environmental Pro Food Research Journal Hazardous Substance D International Uniform CH Japan GHS Classification Australia National Indus NIOSH (National Institut National Library of Medi National Library of Medi National Toxicology Pro New Zealand's Chemica Organization for Econor	betection Agency) ne Level(s) (AEGL(s)) tection Agency Federal Ins tection Agency Federal Ins tection Agency High Produce Database nemical Information Database trial Chemicals Notification te for Occupational Safety cine's ChemID Plus (NLM cine's PubMed database (gram (NTP) al Classification and Inform nic Co-operation and Deven nic Co-operation and Deven	ry (ATSDR) Database secticide, Fungicia action Volume Ch ase (IUCLID) and Assessmen and Health) CIP) NLM PUBMED) nation Database (elopment Environ elopment High Pr	de, and R emicals It Scheme CCID) ment, Hea oduction ¹	odenticide Act • (NICNAS) alth, and Safety Publicati Volume Chemicals Progr	
Issuing Date	11-Apr-24				
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Revision Note

Revised name

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