

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 02-Sep-2022 Revision Date 2-October-2024 Revision Number 3

1. Identification

Product identifier

Product Name Tidal Clear Hybrid ™-798

Other means of identification

Product Code(s) TCH-798

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

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.

Tidal Clear Hybrid™-798 Revision Date: 2-Oct-24

Other information

Harmful to aquatic life with long lasting effects.

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
Aluminum Chlorohydrate	12042-91-0	5-30	*
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.

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

5. Fire-fighting measures

surrounding environment.

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

(M)SDS Number TV-044 Page 2/9

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating and toxic 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. Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Avoid release to the environment. 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
	Aluminum Chlorohydrate	Aluminum Chlorohydrate TWA: 1 mg/m³ respirable		-
	12042-91-0	particulate matter		
Γ	Organic acid	STEL: 15 ppm	TWA: 10 ppm	IDLH: 50 ppm
		TWA: 10 ppm	TWA: 25 mg/m ³	TWA: 10 ppm
			(vacated) TWA: 10 ppm	TWA: 25 mg/m ³
			(vacated) TWA: 25 mg/m ³	STEL: 15 ppm
				STEL: 37 mg/m ³

(M)SDS Number TV-044 Page 3/9

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 protectionNo protective equipment is needed under normal use conditions.

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

Appearance Clear liquid
Physical state Liquid
Color Clear

Odor Slight vinegar
Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHNo data availablepH (as aqueous solution)No data availableMelting point / freezing pointNo data availableInitial boiling point and boiling rangeNo data availableFlash pointNo data availableEvaporation rateNo data availableFlammabilityNo data available

Flammability Limit in Air

Upper flammability or explosive limits No data available No data available Lower flammability or explosive limits No data available Vapor pressure Relative vapor density No data available No data available Relative density Water solubility No data available No data available Solubility(ies) Partition coefficient No data available **Autoignition temperature** No data available No data available **Decomposition temperature** No data available Kinematic viscosity Dynamic viscosity No data available

Other information

Explosive propertiesNo information available **Oxidizing properties**No information available

(M)SDS Number TV-044 Page 4/9

Softening pointNo information availableMolecular weightNo information availableVOC contentNo information availableLiquid DensityNo information availableBulk densityNo 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 avoidNone known based on information supplied.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation No known effects under normal use conditions.

Eye contact No known effect based on information supplied.

Skin contact No known effect based on information supplied.

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
Aluminum Chlorohydrate 12042-91-0	= 9187 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
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.

(M)SDS Number TV-044 Page 5/9

Revision Date: 2-Oct-24

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 Not classified.

Product Information			
Species	Pimephales promelas		
Endpoint type	LC50		
Effective dose	>400 mg/L		
Exposure time	96 hours		
Results	Not classified		
Species	Oncorhynchus mykiss (rainbow trout)		
Endpoint type	LC50		
Effective dose	139 mg/L		
Exposure time	96 hours		
Results	Not classified		
Species	Ceriodaphnia dubia (water flea)		
Endpoint type	EC50		
Effective dose	59.5		
Exposure time	48 hours		
Results	Not classified		
Species	Oncorhynchus mykiss (rainbow trout)		
Endpoint type	NOEC		
Effective dose	50 mg/L		
Exposure time	7 days		
Results	Not classified		
Species	Ceriodaphnia dubia (water flea)		
Endpoint type	NOEC		
Effective dose	100 mg/L		
Exposure time	Survival: 7 days		
Results	Not classified		

(M)SDS Number TV-044 Page 6/9

Species	Ceriodaphnia dubia (water flea)
Endpoint type	NOEC
Effective dose	>25 mg/L
Exposure time	Reproduction: When 60%+ of surviving control organisms produce a 3rd brood
Results	Not classified

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Aluminum Chlorohydrate	-	LC50: 100 - 500mg/L	-	-
12042-91-0		(96h, Brachydanio rerio)		
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

Component Information

Chemical name	Partition coefficient	
Organic acid	-0.17	

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

Revision Date: 2-Oct-24

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

DOTNot regulatedIATANot regulatedIMDGNot regulated

15. Regulatory information

International Inventories

Contact supplier for inventory compliance status

US Federal Regulations

(M)SDS Number TV-044 Page 7/9

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.

Revision Date: 2-Oct-24

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

CERCLA

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	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA
HMISHealth hazards 1Flammability 0Instability 0Special hazards -
Physical hazards 0Special hazards -
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

(M)SDS Number TV-044 Page 8/9

Tidal Clear Hybrid ™-798 Revision Date: 2-Oct-24

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)

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

(M)SDS Number TV-044 Page 9/9