

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Trade name : StormHold™ 416

Product code : SH-416

Type of product : Water treatment chemicals

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Coagulant/ flocculant

#### 1.3. Details of the supplier of the safety data sheet

Tidal Vision Products Inc. (Storm Hold)(France) 3710 Irongate Road Bellingham, Washington United States T (360)603-7676

# Customerservice@Tidalvision.com 1.4. Emergency telephone number

Emergency number : Chemtrec- +33 9 75 18 14 07

24 hours a day, 7 days a week

# SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

This mixture is not classified as hazardous under Regulation (EC) No 1272/2008 (CLP). Therefore, no hazard pictograms, signal words, hazard statements, or precautionary statements are required.

No labelling applicable

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Acetic acid (8028-52-2)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Acetic acid (8028-52-2)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

FR - en 1/11

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 8028-52-2 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412

pecific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Acetic acid	EC-No.: 200-580-7	$(10 \le C < 25)$ Skin Irrit. 2; H315 $(10 \le C < 25)$ Eye Irrit. 2; H319 $(25 \le C < 90)$ Skin Corr. 1B; H314 $(90 \le C < 100)$ Skin Corr. 1A; H314

Comments : The listed classifications above refer to individual substances in the mixture. The mixture

itself is not classified as hazardous and does not require hazard pictograms, signal words, hazard statements, or precautionary statements under Regulation (EC) No 1272/2008

(CLP).

Full text of H- and EUH-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.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

First-aid measures for first aider : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation : None under normal conditions. Symptoms/effects after skin contact : None under normal conditions. Symptoms/effects after eye contact : None under normal conditions. Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

FR - en 2/11

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to

prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep cool. Protect from sunlight.

Packaging materials : Store product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

FR - en 3/11

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

National occupational exposure and biological limit values

StormHold™ 416	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetic acid
IOEL TWA	25 mg/m³
	10 ppm
IOEL STEL	50 mg/m³
	20 ppm
Regulatory reference COMMISSION DIRECTIVE (EU) 2017/164	
Acetic acid (8028-52-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetic acid
IOEL TWA	25 mg/m³
	10 ppm
OEL STEL	50 mg/m³
	20 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

### 8.2. Exposure controls

#### Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):







#### Eye and face protection

#### Eye protection:

Safety glasses

#### **Skin protection**

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

#### **Respiratory protection**

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

FR - en 4/11

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **Environmental exposure controls**

#### **Environmental exposure controls:**

Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid : Not available Colour Appearance Yellow solid. Odour : Not available Odour threshold : Not available Melting point : Not applicable Freezing point : Not available : Not available Boiling point Flammability : Non flammable. Lower explosion limit : Not available Upper explosion limit : Not available Flash point : Not available Auto-ignition temperature : Not available Decomposition temperature : Not available : ≈ 3.5 : Not available Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Vapour pressure at 50°C : Not available : Not available Density Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

FR - en 5/11

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul><li>Not classified (Based on available data, the classification criteria are not met)</li><li>Not classified (Based on available data, the classification criteria are not met)</li><li>Not classified</li></ul>	
Acetic acid (8028-52-2)		
LD50 oral rat	3310 mg/kg Source: ECHA Registered substances	
LD50 oral	4960 mg/kg bodyweight Animal: mouse	
LD50 dermal rabbit	1060 mg/kg Source: HSDB, NITE	
LC50 Inhalation - Rat	11.4 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Female, Experimental value, Inhalation (vapours), 14 day(s))	
LC50 Inhalation - Rat [ppm]	16000 ppm Source: ChemIDPlus	
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: ≈ 3.5	
Acetic acid (8028-52-2)		
рН	2.4 (0.1 mol/l)	
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: ≈ 3.5	
Acetic acid (8028-52-2)		
рН	2.4 (0.1 mol/l)	
Respiratory or skin sensitisation  Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)     Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)	
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)	
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)	
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)	
Acetic acid (8028-52-2)		
NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male	
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)	
Acetic acid (8028-52-2)		

#### 11.2. Information on other hazards

No additional information available

Viscosity, kinematic

# SECTION 12: Ecological information

404	Table	

(chronic)

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term	: Not classified (Based on available data, the classification criteria are not met)

1.02 mm²/s (25 °C, Calculated)

Acetic acid (8028-52-2)	
LC50 - Fish [1]	31.3 – 67.6 mg/l Source: ECHA

FR - en 6/11

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Acetic acid (8028-52-2)	
LC50 - Fish [2]	> 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	18.9 mg/l Source: ECHA
EC50 - Crustacea [2]	> 300.82 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.51 mg/l Source: ECHA
EC50 72h - Algae [2]	> 300.82 mg/l Test organisms (species): Skeletonema costatum
ErC50 algae	> 1000 mg/l (ISO 10253, 72 h, Skeletonema costatum, Static system, Salt water, Experimental value, Nominal concentration)

#### 12.2. Persistence and degradability

StormHold™ 416		
Persistence and degradability	Not established.	
Acetic acid (8028-52-2)	ic acid (8028-52-2)	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.6 – 0.74 g O₂/g substance	
Chemical oxygen demand (COD)	1.03 g O₂/g substance	
ThOD	1.07 g O₂/g substance	

#### 12.3. Bioaccumulative potential

Acetic acid (8028-52-2)	
BCF - Fish [1]	3.16 (Pisces, Fresh water, QSAR)
Partition coefficient n-octanol/water (Log Pow)	-0.17 Source: ECHA
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

Acetic acid (8028-52-2)	tic acid (8028-52-2)	
Surface tension	26 mN/m (30 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.062 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Contains component(s) with potential for mobility in the soil. May be harmful to plant growth, blooming and fruit formation.	

#### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Acetic acid (8028-52-2)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Acetic acid (8028-52-2)

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

FR - en 7/11

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

HP Code : HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin

irritation or damage to the eye.

#### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shippin	g name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard o	class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental haz	ards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information	n available				

#### 14.6. Special precautions for user

#### **Overland transport**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

FR - en 8/11

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### **Explosives Precursors Regulation (EU 2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (EC 273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Abbreviations and acronyms:	
ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number

FR - en 9/11

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acre	Abbreviations and acronyms:		
EC50	Median effective concentration		
ED	Endocrine disruptor		
EN	European Standard		
EWC	European waste catalogue		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
Log Kow	Partition coefficient n-octanol/water (Log Kow)		
Log Pow	Partition coefficient n-octanol/water (Log Pow)		
MAK	maximum workplace concentration		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
N.O.S.	Not Otherwise Specified		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
OSHA	Occupational Safety & Health Administration		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
PPE	Personal protection equipment		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
TF	Technical function		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
TWA	Time Weighted Average		
VOC	Volatile Organic Compounds		
vPvB	Very Persistent and Very Bioaccumulative		
UFI	Unique Formula Identifier		

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

FR - en 10/11

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

FR - en 11/11