

# Flush-It

## Safety Data Sheet

### SECTION 1: Identification

#### 1.1. Identification

Product name Flush-It

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

Use of the substance/mixture : Toilet Cleaner and Holding Tank Treatment

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

Unique Manufacturing and Marketing  
5752 Lamar St.  
Arvada, CO 80002

#### 1.4. Emergency telephone number

Emergency number : 720-798-6122

### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Skin Sens. 1 H317

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

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



GHS07

Signal word (GHS US) : Warning

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

No additional information available

#### 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
Sodium bicarbonate	(CAS-No.) 144-55-8	58 – 70	Not classified
Citric acid	(CAS-No.) 77-92-9	25 – 32	Not classified
Acetic acid, sulfo-, 1-dodecyl ester, sodium salt	(CAS-No.) 1847-58-1	1.28 – 5.1	Not classified
Water soluble film	Proprietary	0.7 – 2	Not classified
Proprietary bacterial blend	Proprietary	0.5 – 2	Not classified

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Name	Product identifier	%	GHS US classification
Apple fragrance	Proprietary	0.5 – 2	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1, H317
Green dye	Proprietary	0.05 – 1	Not classified
Sodium chloride	(CAS-No.) 7647-14-5	0.2 – 1.08	Not classified
Sodium sulfate	(CAS-No.) 7757-82-6	0.1 – 1.08	Not classified

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 after inhalation : Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.
- First-aid measures after skin contact : Wash with plenty of soap and water. Seek medical attention if irritation develops or persists.
- First-aid measures after eye contact : Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
- First-aid measures after ingestion : Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/effects after inhalation : None under normal use.
- Symptoms/effects after skin contact : Contact may irritate the skin. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Contact may cause eye irritation.
- Symptoms/effects after ingestion : Harmful if swallowed.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

- Fire hazard : None known.
- Explosion hazard : None known.

#### 5.3. Advice for firefighters

- Protection during firefighting : Firefighters should wear full protective gear.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : If possible, stop flow of product.
- Methods for cleaning up : Place in an approved container and dispose in accordance with local, state and federal regulations.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

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

Storage conditions : Store in dry, cool, well-ventilated area.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Citric acid (77-92-9)</b>
Not applicable
<b>Sodium bicarbonate (144-55-8)</b>
Not applicable
<b>Acetic acid, sulfo-, 1-dodecyl ester, sodium salt (1847-58-1)</b>
Not applicable
<b>Sodium chloride (7647-14-5)</b>
Not applicable
<b>Sodium sulfate (7757-82-6)</b>
Not applicable
<b>Apple fragrance</b>
Not applicable

### 8.2. Exposure controls

Appropriate engineering controls : None required under normal product handling conditions.  
Hand protection : Wear impervious gloves to minimize skin contact.  
Eye protection : None required under normal product handling conditions.  
Skin and body protection : Wear suitable working clothes.  
Respiratory protection : None required under normal product handling conditions.

## SECTION 9: Physical and chemical properties

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

Physical state : Solid  
Appearance : Powder encased in transparent film  
Color : White to green  
Odor : Apple  
Odor threshold : No data available  
pH : Not applicable  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Relative evaporation rate (butyl acetate=1) : No data available  
Flammability (solid, gas) : No data available  
Vapor pressure : No data available  
Relative vapor density at 20 °C : No data available  
Relative density : No data available  
Solubility : Miscible with water  
Log Pow : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosion limits : No data available  
Explosive properties : No data available

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Oxidizing properties : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Will not occur.

### 10.4. Conditions to avoid

None.

### 10.5. Incompatible materials

None.

### 10.6. Hazardous decomposition products

Not determined.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Citric acid (77-92-9)	
LD50 oral rat	3 g/kg
ATE US (oral)	3000 mg/kg
Sodium bicarbonate (144-55-8)	
LD50 oral rat	4220 mg/kg
ATE US (oral)	4220 mg/kg
Acetic acid, sulfo-, 1-dodecyl ester, sodium salt (1847-58-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
Sodium chloride (7647-14-5)	
LD50 oral rat	3 g/kg
LC50 Inhalation - Rat	> 42 g/m <sup>3</sup> (Exposure time: 1 h)
ATE US (oral)	3000000 mg/kg
Sodium sulfate (7757-82-6)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 4 g/kg

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : May cause an allergic skin reaction.  
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

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### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Citric acid (77-92-9)</b>	
LC50 - Fish [1]	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Sodium bicarbonate (144-55-8)</b>	
LC50 - Fish [1]	8250 – 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Sodium chloride (7647-14-5)</b>	
LC50 - Fish [1]	5560 – 6080 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 - Crustacea [1]	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [2]	340.7 – 469.2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Sodium sulfate (7757-82-6)</b>	
LC50 - Fish [1]	13500 – 14500 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 - Crustacea [1]	2564 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	> 6800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

<b>Citric acid (77-92-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.72 (at 20 °C)
<b>Sodium chloride (7647-14-5)</b>	
BCF - Fish [1]	(no bioaccumulation)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on the ozone layer : No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<b>Citric acid (77-92-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium bicarbonate (144-55-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Acetic acid, sulfo-, 1-dodecyl ester, sodium salt (1847-58-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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**Sodium chloride (7647-14-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Sodium sulfate (7757-82-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2. US State regulations**

**Sodium sulfate (7757-82-6)**

U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) List

**SECTION 16: Other information**

Full text of H-phrases:

Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
H227	Combustible liquid
H315	Causes skin irritation
H317	May cause an allergic skin reaction

*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.*