

Safety Data Sheet  
according 1907/2006/EC (REACH), 2015/830/EU

## FlashClean

Date : 01/01/2008

Version No. 3

Review date: 05/02/2020

### 1 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

#### Product identifier

**1.1 Product name:** FLASHCLEAN

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Relevant identified uses of the substance or mixture:  
FlashClean is a cleaning solution that eliminates residues formed in the hydroponic systems and substrates.

Uses advised against:

Any use not specified in this section or in section 7.3

Use Descriptor System (REACH): No data available (not applicable).

**1.3 Details of the supplier of the safety data sheet**

Supplier identification Général Hydroponics Europe  
Address 4, boulevard du Biopole 32500 FLEURANCE  
Phone number +33 (0)5 62 06 08 30  
E-mail address info@eurohydro.com

**1.4 Emergency telephone number**

Medical services/  
emergency services **15**

Fire and rescue services **18**

Police **17**

**1.4** EU Emergency call line **112**

Toxicological Information Centre **01 45 41 59 59**  
ORFILA (INRS) <http://www.centres-antipoison.net>

Toxicological Information Centre **05 61 77 74 47**  
South West

### 2 SECTION 2: HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

Reg. 1272/2008/CLP In accordance with Regulation No. 1272/2008 (CLP), the product is not considered dangerous.

Additional information :

Hazards for humans None  
Environmental hazards None  
Physico-chemical hazards None  
Other hazards None

#### Labelling elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

**2.2** Hazard pictograms None  
Signal word None  
Hazardous substances to be indicated on the label None  
Hazard statements: None  
Hazard warning P Phrases  
P-phrases (Reg. 1272/2008/CLP) P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

#### 2.3 Other hazards

Reg. 1272/2008/CLP This mixture does not contain a 'Substance of Very High Concern' (SVHC) as defined by the criteria of Article 57 of REACH - the list published by the European Chemicals Agency (ECHA) in accordance with Article 59 of REACH, Regulation (EC) No 1907/2006 (<http://echa.europa.eu/fr/candidate-list-table>).  
This mixture does not contain a substance evaluated as a PBT or tPtB substance as defined in Annex XIII of REACH Regulation (EC) No 1907/2006.

### 3 SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances** Non applicable  
**3.2 Mixtures Name** FlashClean  
**Mixtures classified as dangerous** Not applicable  
A mixture not containing substances classified as hazardous to health or the environment as defined by criteria of point 3.2.2 of Regulation EU No.2015/830).

### 4 SECTION 4: FIRST AID MEASURES

No known incidents of damage to persons who have used this product.

However, in case of doubt or if symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person. The general measures described below should be adopted:

#### 4.1

##### Description of first aid measures

Following eye contact Wash immediately and abundantly with water, keeping the eyelids well apart for at least 20 minutes. Check if the victim is wearing contact lenses and if so, remove them. Consult a doctor immediately.  
Following skin contact Rinse the irritated area thoroughly with water and soap. Remove contaminated clothing. Consult a doctor if symptoms appear. Clean contaminated clothing and shoes before reuse.

Following ingestion	<p>If the amount ingested is small (no more than one sip), rinse mouth with water.</p> <p>Seek medical attention by showing the label.</p> <p>If the product has been swallowed and the exposed person is conscious, give small amounts of water to drink. Stop if the exposed person feels sick, as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical staff. If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs. Seek medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.</p>
Following inhalation	<p>Remove the victim to fresh air and keep him/her at rest in a comfortable position to breathe. If breathing is irregular or stopped, give artificial respiration or oxygen by qualified personnel. Mouth-to-mouth resuscitation may be hazardous to the person providing assistance. Consult a doctor if adverse health effects persist or are severe.</p>
Self-protection of the first aider	<p>No action should be taken that involves an individual risk or in the absence of appropriate training. If it is suspected that fumes are present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It can be dangerous for the person assisting a victim to practice mouth-to-mouth. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.</p>
Other information	<p>For further details of first aid administration, including but not limited to more serious health effects, the doctor may consult the Toxicological Information Centre, hotline: see section 1.4</p>
<b>4.2</b>	<p><b>Most important symptoms and effects, both acute and delayed</b></p> <p><b>Potential acute health effects:</b></p> <p>Eye Contact: May cause mild eye irritation.</p> <p>Inhalation: No known significant effects or critical hazards.</p> <p>Ingestion: No known significant effects or critical hazards.</p> <p>Skin Contact: No known significant effects or critical hazards.</p> <p><b>Signs/symptoms of overexposure:</b></p> <p>Eye Contact: Adverse symptoms may include pain or irritation, tearing, redness.</p> <p>Inhalation: No known significant effects or critical hazards.</p> <p>Ingestion: No known significant effects or critical hazards.</p> <p>Skin Contact: No known significant effects or critical hazards.</p>
<b>4.3</b>	<p><b>Indication of any immediate medical attention and special treatment needed</b></p> <p>Symptomatic treatment required. No special treatment. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</p> <p>If decomposition products are inhaled in a fire, symptoms may be delayed.</p> <p>The exposed person may need to be placed under medical supervision for 48 hours.</p>

**5 SECTION 5 : FIREFIGHTING MEASURES**

<b>5.1</b>	<p><b>Extinguishing media</b></p> <p>The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions.</p> <p>Suitable extinguishing media:</p> <p>In the event of continued combustion, caused by improper handling, storage or use, the following extinguishing media may be used: carbon dioxide (CO<sub>2</sub>), foam, chemical powders, and in the event of a widespread fire, also water spray.</p> <p>Inappropriate extinguishing media:</p> <p>In case of fire, do not use: Water jet</p>
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5.2	<b>Special hazards arising from the substance or mixture</b>	<p>Hazards due to the substance or mixture:</p> <p>Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.</p> <p>Risk related to thermal decomposition products:</p> <p>A fire in the surrounding area will often produce thick black smoke. Exposure to compositional products may pose health risks. Do not breathe dust, vapours or fumes released by the combustion of the products.</p> <p>Decomposition products may include the following materials:</p> <ul style="list-style-type: none"> <li>- carbon monoxide (CO)</li> <li>- carbon dioxide (CO<sub>2</sub>)</li> <li>- nitrogen oxides (NO<sub>x</sub>)</li> </ul> <p>Fire water contaminated with this product should be contained and prevented from being discharged to a watercourse or sewer.</p>
5.3	<b>Advice for firefighters</b>	<p><u>Protective actions to be taken when fighting fires</u></p> <p>No specific measures</p> <p>Quickly isolate the area by evacuating all persons from the surrounding area in case of fire. Do not take any action involving a personal risk or in the absence of adequate training. Keep containers away from fire if it can be done without risk. Use water or water spray to keep containers exposed to fire cool.</p> <p><u>Appropriate protective equipment</u></p> <p>The product is not combustible. In the event of a fire in the surrounding area, appropriate extinguishing media and protective equipment may be used for the other materials present (full protective clothing and personal respiratory equipment), in accordance with EN469 for a basic level of protection against chemical incidents. Firefighters must wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece, positive-pressure mask. Have a minimum of emergency facilities or intervention elements (fireproof blankets, first-aid kit, etc.) according to Directive 89/654/EC.</p>
5.4	<b>Other information</b>	<p>Additional provisions:</p> <p>Respond in accordance with the Internal Emergency Plan and the Fact Sheets on Accident and Other Emergency Response. Remove all sources of ignition. In case of fire, refrigerate containers and storage tanks for products that may ignite and explode as a result of high temperatures. Avoid spilling products used to extinguish the fire in the aquatic environment.</p>

## 6 SECTION 6: ACCIDENTAL RELEASE MESURES

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

For non-emergency personnel

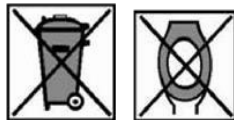
Ensure good ventilation.

No action should be taken that poses an individual risk or in the absence of appropriate training. Prevent unnecessary and unprotected personnel from entering. Do not touch or walk on spilled material. Avoid breathing dust or vapour. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Wear appropriate personal protective equipment. (See section 8)

For emergency responders

If specific clothing is required to handle the spill, refer to Section 8 for appropriate and inappropriate materials. See also the information contained in "For personnel other than response personnel"

**Environmental precautions**



6.2

Avoid contamination of soil, sewers, surface water and groundwater. If this happens, inform the competent authorities.

**Methods and material for containment and cleaning up**

6.3

For containment:

Sewer coverage

For cleaning up:

Stop the spill if it is safe to do so. Move containers out of spill area. Release as wind approaches. Prevent entry into sewers, waterways, basements or confined areas. Wash spills in an effluent treatment plant or proceed as follows: Contain and collect spills with non-combustible absorbent material such as sand, soil, vermiculite or diatomaceous soil and place in a container for disposal in accordance with local regulations (see section 13). Dispose of through a licensed waste disposal company. Contaminated absorbent may pose the same hazard as the spilled product.

Wash area with water.

Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

Collect the remains in an identified container: see point 13 for disposal.

Personal protective equipment: see section 8

Withdrawal considerations: see section 13.

See section 1 for emergency contact information.

**Reference to other sections**

6.4

**7 SECTION 7 : HANDLING AND STORAGE**

**Precautions for safe handling**

7.1

Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes. Store in original container, out of direct sunlight, in a dry, cool, well-ventilated place, away from incompatible materials (see section 10), food and drink. Keep container tightly closed and sealed until time of use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Do not reuse containers. Use appropriate containment to prevent environmental contamination.

**Advice on professional hygiene in general:**

It is prohibited to eat, drink or smoke in areas where this product is handled, stored or used. It is recommended that staff wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering a food court. See also section 8 for more information on hygiene measures.

**Conditions for safe storage, including any incompatibilities**

7.2

Store in accordance with local regulations. Store upright in the original container away from direct sunlight in a dry, cool and well-ventilated place away from incompatible materials (see section 10). Keep under lock and key. Keep container upright, tightly closed when not in use. Containers that have been opened must be carefully closed again and kept in an upright position to prevent leaks. Do not store in unlabelled containers. Do not store in the presence of food products. Use an appropriate container to avoid contamination of the surrounding environment. Enclose storage facilities with containment dikes to prevent soil and water pollution in the event of a spill.

**Specific end use(s)**

No specific end uses.

7.3

Good practices: keep in closed containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with waterproof pavement.

## 8 SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

### 8.1 Control parameters

Not applicable. Does not contain substances with professional exposure limit values.

Use good industrial hygiene practices.

### 8.2 Exposure controls

Appropriate engineering controls

No particular control. Good general ventilation should be sufficient to control workers' exposure to airborne contaminants.

Individual protection measures, such as personal protective equipment

No personal protection required. In general, use individual protections placed on the market in accordance with the provisions of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016.

Personal protective equipment must be adapted to the risk, kept clean and properly maintained in accordance with the provisions of the Labour Code.

Eye/face protection

Protective eyewear complying with an approved standard should be used when a risk assessment indicates that this is necessary to avoid exposure to splashes of liquids, mists, gases or dusts. In case of possible contact, wear the following protective eyewear unless the assessment indicates a higher degree of protection: safety glasses with side shields. If conditions require it, use safety glasses complying with the NF EN166 standard.

Skin protection

Chemical-resistant, waterproof gloves complying with an approved standard (NF EN374) must be worn at all times when handling chemicals if a risk assessment requires it. Taking into account the parameters specified by the glove manufacturer, check during use that the gloves retain their protective properties. It should be noted that the breakthrough time of a glove material may vary from one manufacturer to another. In the case of mixtures composed of several substances, the protection time of the gloves cannot be accurately estimated. Use suitable chemical-resistant protective gloves in accordance with NF EN374.

Respiratory protection

Ensure adequate ventilation, especially in enclosed areas.

Body protection

Personal protective equipment should be selected according to the task to be performed and the risks involved and should be approved by a specialist before using this product. Appropriate footwear and any other skin protection measures must be chosen according to the task to be performed and the risks involved and must be approved by a specialist before using this product.

Environmental exposure controls

Emissions from ventilation or process equipment should be checked to ensure that they comply with the requirements of environmental protection legislation.

## 9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance

Physical state: aqueous solution.

Color: blue

Odour

No odor

pH (1% dilution)

4

Melting point

Not applicable

Freezing point

10°C

Initial boiling point and boiling range

100°C

Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.01
Solubility(ies) 20°C	Entirely Soluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined
Refraction index	Not determined
Rotary power	Not determined

## 9.2 Other information

No other information

## 10 SECTION 10 : STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	No specific reactivity test data are available for this product or its components in normal conditions of use.
<b>10.2</b>	<b>Chemical stability</b>	The product is stable at room temperature in closed packages and under normal storage and handling conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No risk of dangerous reactions under normal use and storage conditions.
<b>10.4</b>	<b>Conditions to avoid</b>	Do not mix with incompatible products and avoid high temperatures.
<b>10.5</b>	<b>Incompatible materials</b>	Strong oxidants
<b>10.6</b>	<b>Hazardous decomposition products</b>	At high temperatures, decomposition products are formed: - carbon monoxide (CO) - carbon dioxide (CO <sub>2</sub> ) - nitrogen oxides (NO <sub>x</sub> )

## 11 SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

a) acute toxicity	No toxicological data available for the mixture.
(b) skin corrosion/irritation;	The product is not classified for its toxicity (conventional method by calculation).
(c) serious eye damage/irritation;	
(d) respiratory or skin sensitisation;	
(e) germ cell mutagenicity;	
(f) carcinogenicity;	

(g) reproductive toxicity;	
(h) STOT-single exposure;	
(i) STOT-repeated exposure;	
(j) aspiration hazard	
Symptoms related to the physical, chemical and toxicological characteristics	No data available
Delayed and immediate effects as well as chronic effects from short- and long-term exposure	No data available
Interactive effects	No data available
Absence of specific data	No data available
Mixtures	No data available
Mixture versus substance information	No data available
Other information	Comply with good industrial hygiene practices

## 12 SECTION 12 : ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	No aquatic toxicity information is available on the mixture. This mixture is not classified for environmental toxicity (conventional calculation method). Any discharge of the product into sewers or watercourses should be avoided.
<b>12.2 Persistence and degradability</b>	No data available to date to the best of our knowledge
<b>12.3 Bioaccumulative potential</b>	No data available to date to the best of our knowledge
<b>12.4 Mobility in soil</b>	No data available to date to the best of our knowledge. Waste generation should be avoided or minimized as much as possible, and the product should not be discharged into sewers or waterways.
<b>12.5 Results of PBT and vPvB assessment</b>	The mixture does not contain any PBT nor vPvB substance.
<b>12.6 Other adverse effects</b>	No known significant effects or critical hazards.

## 13 SECTION 13 : DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	The generation of waste should be avoided or minimised as much as possible. Disposal of this product, solutions and any sub-products should be in accordance with the requirements of environmental protection and waste disposal legislation and the requirements of regional local authorities. Dispose of excess and non-recyclable products through a licensed waste disposal contractor. Untreated waste should not be disposed into the sewer unless it fully complies with the requirements of all authorities having jurisdiction. Packaging waste should be recycled. Incineration or burial should be considered only when recycling is not possible. This product and its container should be disposed of in a safe manner. Completely empty the container. Keep the label on the container. Take to an approved waste disposal company. Care must be taken when handling empty containers that have not been cleaned or rinsed. Empty containers or liners may contain product residue. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Local requirements : Waste regulations are codified in the Environment Code, according to the Ordinance N°2000-
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914 of 18/09/2000 relating to the legislative part of the Environment Code.  
 French national transposition of Directive 2008/98/EC :  
 - Decree N°2011-828 of 11 July 2011 on various provisions relating to the prevention and management of waste.  
 - Decree No. 2016-811 of 17 June 2016 on the regional waste prevention and management plan.

Waste codes / waste designations according to LoW: Not applicable

## 14 SECTION 14 : TRANSPORT INFORMATION

Non-hazardous transport. In the event of an accident and product spillage, proceed as described in point 6

<b>14.1</b>	<b>UN number</b>	Not regulated. Non-hazardous transport
<b>14.2</b>	<b>UN proper shipping name</b>	-
<b>14.3</b>	<b>Transport hazard class(es)</b>	-
	<b>ADR</b>	Not regulated. Non-hazardous transport
	<b>IMDG</b>	
	<b>OACI/IATA</b>	
<b>14.4</b>	<b>Packing group</b>	Exempt from classification and labelling Transport
<b>14.5</b>	<b>Environmental hazards</b>	Non-hazardous transport
<b>14.6</b>	<b>Special precautions for user</b>	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Exempt from classification and labelling Transport

## 15 SECTION 15 : REGULATORY INFORMATION

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

<b>15.1</b>	Reg. 1272/2008/CE	The product does not contain substances that can be classified as carcinogenic. 1 or 2 according to Reg.1272/2008/EC and subsequent updates.
	Reg. 830/2015/CE (REACH)	Not applicable
	Special hazards	To our knowledge, no other national or governmental regulations apply.
<b>15.2</b>	<b>Chemical safety assessment</b>	Evaluation not carried out

## 16 SECTION 16 : OTHER INFORMATION

<b>Abbreviations and acronyms:</b>	ETA = Acute Toxicity Estimation
	CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures
	DNEL = Derived no-effect dose
	DMEL = Derived no-effect dose

		<p>EUH = Specific hazard statement CLP</p> <p>CPSE = Predicted no-effect concentration</p> <p>RRN = REACH registration number</p> <p>PTB = Persistent, Toxic and Bioaccumulative</p> <p>tPtB = Very persistent and very bioaccumulative</p> <p>bw = Body mass</p>
<b>16.1</b>	<b>Key literature references and sources for data</b>	<p>Regulation (EC) 1907/2006 of the European Parliament (REACH)</p> <p>Regulation (EC) 1272/2008 of the European Parliament (CLP)</p> <p>Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)</p> <p>Regulation (EC) 453/2010 of the European Parliament Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)</p>
<b>16.2</b>		<p>The Merck index. Ed. 10 Handling and chemical safety</p> <p>Niosh - Register of toxic effects of chemical substances</p> <p>INRS - Toxicological Data Sheet</p> <p>Patty - Industrial hygiene and toxicology</p> <p>N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989</p> <p>ECHA website</p> <p>EU REACH IUCLID5 CSR.</p> <p>National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.</p> <p>IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada. Règlement (CE) n ° 1272/2008 Annexe VI.</p>
<b>16.3</b>	<b>Indication of changes:</b>	<p>Date of revision: 25/02/2020</p> <p>Previous version date: 03/15/2017</p> <p>Version :3</p> <p>Modifications: section 5.3; change of commercial name from "FloraKleen" to "FlashClean".</p>
<b>16.4</b>	<b>Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:</b>	<p>The indicated mixture does not require an SDS according to the REACH requirements. This sheet is for information purposes only.</p> <p>This safety data sheet complies with the requirements set out in Reg. 830/2015/EU. It does not exempt the user from knowing and applying all the documents that govern his activity. The user will take under his responsibility the precautions related to the specific use of the product. All the regulatory requirements mentioned are simply intended to help the recipient to assume his responsibilities. This list should not be considered exhaustive. This data sheet supplements the technical instructions for use but does not replace them. The information in this safety data sheet has been compiled by GHE based on its current knowledge (safety data sheet for the active ingredients compiled by the manufacturer and other bibliographical data) as of the date indicated. It is given in good faith. In addition, the user's attention is drawn to the possible risks involved when a product is used for purposes other than those for which it was created. The recipient must ensure that he is not liable for anything other than what is stated in the texts other than those mentioned.</p> <p>The information describes the safety aspects of the product. It is not intended to guarantee specific properties.</p> <p>It is the responsibility of our customers to observe the applicable regulations.</p>

