

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

FloraKleen

Date : 29/12/2017 Version No. 2 Review date: 15/11/2019

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

Product identifier

1.1 Product name: FLORAKLEEN

1.2 Relevant identified uses of the substance or mixture and uses advised against **Relevant identified uses of the substance or mixture:**
FloraKleen 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**

1.4 Police **17**

EU Emergency call line **112**

Toxicological
Information Centre
ORFILA (INRS) **01 45 41 59 59**

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

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 H: None

2.3 Other hazards

Reg. 1272/2008/CLP None

Precautionary statements P: Phrases P

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.

3 SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Non applicable

3.2 Mixtures Name FloraKleen

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).

CAS Number : not applicable

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 Do not allow the victim to rub their eyes or keep their eyes closed. Immediately flush eyes, including under the eyelids, with plenty of clean, clear water for at least 15 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 with soap for at least 15 minutes. Remove contaminated clothing.

Following ingestion Do not induce vomiting. Rinse the mouth with water. If a person has swallowed this product and is conscious, give small amounts of water to drink. Call a doctor if adverse health effects persist or worsen.

Following inhalation If inhaled, move to fresh air. In case of breathing difficulties, consult a doctor as soon as possible.

Self-protection of the first aider	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.
Other information	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
4.2	<p>Most important symptoms and effects, both acute and delayed</p> <p>Potential acute health effects: No known effect / no data are available.</p> <p>Signs/symptoms of overexposure: No specific data.</p>
4.3	<p>Indication of any immediate medical attention and special treatment needed</p> <p>Note to the attending physician Symptomatic treatment required. No special treatment. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled</p>

5 SECTION 5 : FIREFIGHTING MEASURES

5.1	<p>Extinguishing media</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: In the event of continued combustion, caused by improper handling, storage or use, the following extinguishing media may be used: carbon dioxide (CO₂), foam, chemical powders, and in the event of a widespread fire, also water spray.</p> <p>Inappropriate extinguishing media: In case of fire, do not use: Water jet</p>
5.2	<p>Special hazards arising from the substance or mixture</p> <p>Hazards due to the substance or mixture: 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: 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. Decomposition products may include the following materials: - carbon monoxide (CO) - carbon dioxide (CO₂) - nitrogen oxides (NO_x)</p>
5.3	<p>Advice for firefighters</p> <p><u>Protective actions to be taken when fighting fires</u> None of them</p> <p><u>Appropriate protective equipment</u> 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. Have a minimum of emergency facilities or</p>

intervention elements (fire blankets, medicine kit, etc.) in accordance with Directive 89/654/EC.

Other information

Additional provisions:

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, if possible

5.4

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.

6 SECTION 6: ACCIDENTAL RELEASE MESURES

6.1 Personal precautions, protective equipment and emergency procedures

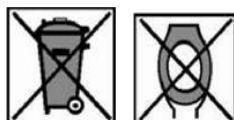
For non-emergency personnel

No action should be taken that involves an individual risk or in the absence of appropriate training. Evacuate the area. Prevent access to persons not required and not wearing protective clothing. Ensure adequate ventilation. Wear protective equipment.

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:

Collect the spilled product with non-combustible absorbent materials, by mechanical means and remove any residues by water jets. Provide adequate ventilation at the location of the spill. The disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

Reference to other sections

6.4

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.

7 SECTION 7 : HANDLING AND STORAGE

Precautions for safe handling

Avoid the formation of suspended particles and the dispersion of the product in the air.

Use adequate ventilation in areas where suspended particles develop.

Keep away from flames and sparks. Do not smoke. Keep away from heat sources and other sources of fire.

7.1

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.

7.2	Conditions for safe storage, including any incompatibilities	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.
7.3	Specific end use(s)	No specific end uses. 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 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	It is necessary to wear protective glasses in accordance with NF EN166 before handling large quantities of any chemical products.
	Skin protection	Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product. Use suitable chemical-resistant protective gloves in accordance with NF EN374.
	Respiratory protection	Ensure adequate ventilation, especially in enclosed areas.
	Body protection	Wear appropriate protective clothing. After contact with the product, all parts of the body that have been in contact with the product must be washed.
	Environmental exposure controls	No data available.

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

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

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	Mixture not containing substances subject to registration. No known adverse effects or symptoms resulting from exposure to the mixture or its components.
Other information	Comply with good industrial hygiene practices

12 SECTION 12 : ECOLOGICAL INFORMATION

12.1	Toxicity	No aquatic toxicity information is available for the mixture. This mixture is not classified as hazardous for the environment (classification by calculation). The product should not be allowed to enter drains or water courses.
12.2	Persistence and degradability	No data available to date to the best of our knowledge
12.3	Bioaccumulative potential	No data available to date to the best of our knowledge
12.4	Mobility in soil	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.
12.5	Results of PBT and vPvB assessment	The mixture does not contain any PBT nor vPvB substance.
12.6	Other adverse effects	No known significant effects or critical hazards.

13 SECTION 13 : DISPOSAL CONSIDERATIONS

	Waste treatment methods	Do not discharge into my sewers or waterways. Waste: Waste management is carried out without endangering human health and without harming the environment, including without creating a risk to water, air, soil, fauna and flora. Recycle or dispose of in accordance with current legislation, preferably by an approved collector or company.
13.1		Disposal of the product/packaging: it is prohibited to discharge it into sewers or waterways. Residues and empty containers must be handled and disposed of in accordance with the relevant local/national legislation in force. Completely empty container. Keep label(s) on container. Give to a certified disposal contractor. Follow the provisions of 2008/98/EC, Decision 2014/955/EU and Directive (EU) 2015/1127 on waste management.

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

14.1	UN number	Not regulated. Non-hazardous transport
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
	ADR	Not regulated. Non-hazardous transport
	IMDG	
	OACI/IATA	
14.4	Packing group	-
14.5	Environmental hazards	No
14.6	Special precautions for user	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
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not available

15 SECTION 15 :REGULATORY INFORMATION

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

15.1	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.
15.2	Chemical safety assessment	Evaluation not carried out

16 SECTION 16 : OTHER INFORMATION

Abbreviations and acronyms:

16.1	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
	EUH = Specific hazard statement CLP
	CPSE = Predicted no-effect concentration
	RRN = REACH registration number
	PTB = Persistent, Toxic and Bioaccumulative
	tPtB = Very persistent and very bioaccumulative
	bw = Body mass

	Key literature references and sources for data	<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> <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>
16.2		
16.3	Indication of changes:	<p>Date : 15/11/2019</p> <p>Version: 2 – updated to 16 parts.</p>
16.4	Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: Note	<p>Not applicable, to the best of our knowledge</p> <p>The indicated mixture does not require an MSDS according to REACH requirements. Form prepared for information purposes.</p> <p>This safety data sheet complies with the requirements established by Regulation 830/2015/EU. It does not in any way 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 intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical operating instructions but does not replace them. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof. The information contained herein is based on our knowledge of the product on the date indicated. They are 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 user must ensure that he is not responsible for anything else according to texts other than those mentioned.</p>