

**CITROCIDE PLUS**

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

- 1.1 Product identifier:** CITROCIDE PLUS
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
 Relevant uses: Miscellaneous. For professional use only.  
 Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
 Detergentes y Desinfectantes, S.A.  
 Polígono Industrial Partida Alameda, parcela B  
 46721 Potries - Valencia - Spain  
 Phone.: +34962800718 -  
 Fax: +34962899379  
 dydsa@dydsa.com  
 www.dydsa.com
- 1.4 Emergency telephone number:** 915 620 420

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) nº 1272/2008:**  
 Classification of this product has been carried out in accordance with CLP Regulation (EC) nº 1272/2008.  
 Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302  
 Eye Dam. 1: Serious eye damage, Category 1, H318  
 Flam. Liq. 3: Flammable liquids, Category 3, H226  
 Org. Perox. F: Organic peroxides, Category F, H242  
 Skin Corr. 1A: Skin corrosion, Category 1A, H314  
 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**  
**CLP Regulation (EC) nº 1272/2008:**  
**Danger**
- 
- Hazard statements:**  
 Acute Tox. 4: H302 - Harmful if swallowed  
 Flam. Liq. 3: H226 - Flammable liquid and vapour  
 Org. Perox. F: H242 - Heating may cause a fire  
 Skin Corr. 1A: H314 - Causes severe skin burns and eye damage  
 STOT SE 3: H335 - May cause respiratory irritation
- Precautionary statements:**  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.  
 P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively
- Substances that contribute to the classification**  
 Hydrogen Peroxide; Acetic acid; Peracetic acid
- 2.3 Other hazards:**  
 Non-applicable

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

- 3.1 Substance:**  
 Non-applicable

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)**

**3.2 Mixture:**

**Chemical description:** Miscellaneous products

**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 7722-84-1 EC: 231-765-0 Index: 008-003-00-9 REACH01-2119485845-22-XXX	<b>Hydrogen Peroxide</b> ATP CLP00  Regulation 1272/2008 Acute Tox. 4: H302+H332; Ox. Liq. 1: H271; Skin Corr. 1A: H314 - Danger	<b>10 - &lt;25 %</b>
CAS: 64-19-7 EC: 200-580-7 Index: 607-002-00-6 REACH01-2119475328-30-XXX	<b>Acetic acid</b> ATP CLP00  Regulation 1272/2008 Flam. Liq. 3: H226; Skin Corr. 1A: H314 - Danger	<b>10 - &lt;25 %</b>
CAS: 79-21-0 EC: 201-186-8 Index: 607-094-00-8 REACH01-2119531330-56-XXX	<b>Peracetic acid</b> ATP CLP00  Regulation 1272/2008 Acute Tox. 4: H302+H312+H332; Aquatic Acute 1: H400; Flam. Liq. 3: H226; Org. Perox. D: H242; Skin Corr. 1A: H314 - Danger	<b>10 - &lt;25 %</b>

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

**By inhalation:**

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

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### SECTION 5: FIREFIGHTING MEASURES (continue)

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**6.2 Environmental precautions:**

Avoid spillage into an aqueous medium as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into an aqueous medium notify the relevant authority.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling:**

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Minimum Temp.:	5 °C
Maximum Temp.:	30 °C
Maximum time:	24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

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**SECTION 7: HANDLING AND STORAGE (continue)**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the work environment

Identification	Environmental limits		
	Acetic acid CAS: 64-19-7 EC: 200-580-7	IOELV (8h)	10 ppm
	IOELV (STEL)		
	Year	2015	

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Hydrogen Peroxide CAS: 7722-84-1 EC: 231-765-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	3 mg/m <sup>3</sup>	Non-applicable	1,4 mg/m <sup>3</sup>
Acetic acid CAS: 64-19-7 EC: 200-580-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	25 mg/m <sup>3</sup>	Non-applicable	25 mg/m <sup>3</sup>
Peracetic acid CAS: 79-21-0 EC: 201-186-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	0,6 mg/m <sup>3</sup>	0,6 mg/m <sup>3</sup>	0,6 mg/m <sup>3</sup>	0,6 mg/m <sup>3</sup>

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Hydrogen Peroxide CAS: 7722-84-1 EC: 231-765-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	1,93 mg/m <sup>3</sup>	Non-applicable	0,21 mg/m <sup>3</sup>
Acetic acid CAS: 64-19-7 EC: 200-580-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	25 mg/m <sup>3</sup>	Non-applicable	25 mg/m <sup>3</sup>
Peracetic acid CAS: 79-21-0 EC: 201-186-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	0,6 mg/m <sup>3</sup>	0,3 mg/m <sup>3</sup>	0,6 mg/m <sup>3</sup>	0,6 mg/m <sup>3</sup>

**PNEC:**

Identification		PNEC		
Hydrogen Peroxide CAS: 7722-84-1 EC: 231-765-0	STP	4,66 mg/L	Fresh water	0,0126 mg/L
	Soil	0,0023 mg/kg	Marine water	0,0126 mg/L
	Intermittent	0,0138 mg/L	Sediment (Fresh water)	0,047 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,047 mg/kg
Acetic acid CAS: 64-19-7 EC: 200-580-7	STP	85 mg/L	Fresh water	3,058 mg/L
	Soil	0,47 mg/kg	Marine water	0,3058 mg/L
	Intermittent	30,58 mg/L	Sediment (Fresh water)	11,36 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1,136 mg/kg
Peracetic acid CAS: 79-21-0 EC: 201-186-8	STP	0,051 mg/L	Fresh water	0,000224 mg/L
	Soil	0,32 mg/kg	Marine water	Non-applicable
	Intermittent	Non-applicable	Sediment (Fresh water)	0,00018 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

**8.2 Exposure controls:**

A.- General security and hygiene measures in the work place

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

**C.- Specific protection for the hands**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

**D.- Ocular and facial protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face mask		EN 166:2001 EN 167:2001 EN 168:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

**E.- Bodily protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006 EN ISO 20344:2011	Replace boots at any sign of deterioration.

**F.- Additional emergency measures**

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

- V.O.C. (Supply): 32 % weight
- V.O.C. density at 20 °C: 0,39 kg/m<sup>3</sup> (0,39 g/L)
- Average carbon number: 2
- Average molecular weight: 67,6 g/mol

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information see the product datasheet.

##### Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Colorless
Color:	Colourless
Odor:	Acre

##### Volatility:

Boiling point at atmospheric pressure:	113 °C
Vapour pressure at 20 °C:	1762 Pa
Vapour pressure at 50 °C:	9295 Pa (9 kPa)
Evaporation rate at 20 °C:	Non-applicable *

##### Product description:

Density at 20 °C:	1 - 1 kg/m <sup>3</sup>
Relative density at 20 °C:	1,1
Dynamic viscosity at 20 °C:	1,04 cP
Kinematic viscosity at 20 °C:	0,93 cSt
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

##### Flammability:

Flash Point:	49 °C
Autoignition temperature:	427 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available

#### 9.2 Other information:

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

#### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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**SECTION 10: STABILITY AND REACTIVITY (continue)**

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Avoid direct impact	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Combustive materials	Combustible materials	Others
Avoid direct impact	Not applicable	Avoid direct impact	Avoid direct impact	Avoid alkalis or strong bases

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion:

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For more information on the secondary effects of contact with the skin see section 2.

B- Inhalation:

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes:

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilizing effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

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**SECTION 11: TOXICOLOGICAL INFORMATION (continue)**

Identification	Acute toxicity		Genus
Peracetic acid CAS: 79-21-0 EC: 201-186-8	LD50 oral	500 mg/kg (ATEi)	
	LD50 dermal	1100 mg/kg (ATEi)	
	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Hydrogen Peroxide CAS: 7722-84-1 EC: 231-765-0	LD50 oral	1193 mg/kg	Rat
	LD50 dermal	4060 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	Rat

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

Identification	Acute toxicity		Specie	Genus
Hydrogen Peroxide CAS: 7722-84-1 EC: 231-765-0	LC50	16,4 mg/L (96 h)	Pimephales promelas	Fish
	EC50	7,7 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	2,5 mg/L (72 h)	Chlorella vulgaris	Algae
Acetic acid CAS: 64-19-7 EC: 200-580-7	LC50	75 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	47 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Peracetic acid CAS: 79-21-0 EC: 201-186-8	LC50	0,1 - 1 mg/L (96 h)		Fish
	EC50	0,1 - 1 mg/L		Crustacean
	EC50	0,1 - 1 mg/L		Algae

**12.2 Persistence and degradability:**

Identification	Degradability		Biodegradability	
Acetic acid CAS: 64-19-7 EC: 200-580-7	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	74 %

**12.3 Bioaccumulative potential:**

Identification	Bioaccumulation potential	
Acetic acid CAS: 64-19-7 EC: 200-580-7	BCF	3
	Pow Log	-0,71
	Potential	Low
Peracetic acid CAS: 79-21-0 EC: 201-186-8	BCF	1
	Pow Log	-1,09
	Potential	Low

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
Acetic acid CAS: 64-19-7 EC: 200-580-7	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	26990 N/m (25 °C)	Moist soil	Non-applicable
Peracetic acid CAS: 79-21-0 EC: 201-186-8	Koc	4	Henry	2,168E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

**12.5 Results of PBT and vPvB assessment:**

Non-applicable

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

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**SECTION 13: DISPOSAL CONSIDERATIONS (continue)**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

**Type of waste (Regulation (EU) No 1357/2014):**

HP3 Flammable, HP4 Irritant – skin irritation and eye damage, HP6 Acute Toxicity, HP8 Corrosive

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) nº1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2015 and RID 2015:



- 14.1 UN number: UN3109
- 14.2 UN proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID (Peracetic acid)
- 14.3 Transport hazard class(es): 5.2  
Labels: 5.2
- 14.4 Packing group: N/A
- 14.5 Dangerous for the environment: No
- 14.6 Special precautions for user  
Special regulations: 122, 274  
Tunnel restriction code: D  
Physico-Chemical properties: see section 9  
Limited quantities: 125 mL
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 37-14:



- 14.1 UN number: UN3109
- 14.2 UN proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID (Peracetic acid)
- 14.3 Transport hazard class(es): 5.2  
Labels: 5.2
- 14.4 Packing group: N/A
- 14.5 Dangerous for the environment: No
- 14.6 Special precautions for user  
Special regulations: Non-applicable  
EmS Codes: F-J, S-R  
Physico-Chemical properties: see section 9  
Limited quantities: 125 mL
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2015:

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### SECTION 14: TRANSPORT INFORMATION (continue)



<b>14.1 UN number:</b>	UN3109
<b>14.2 UN proper shipping name:</b>	ORGANIC PEROXIDE TYPE F, LIQUID (Peracetic acid)
<b>14.3 Transport hazard class(es):</b>	5.2
Labels:	5.2
<b>14.4 Packing group:</b>	N/A
<b>14.5 Dangerous for the environment:</b>	No
<b>14.6 Special precautions for user</b>	
Physico-Chemical properties:	see section 9
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Non-applicable

### SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains Peracetic acid, Hydrogen Peroxide.

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Hydrogen Peroxide (Product-type 1, 2, 3, 4, 5, 6, 11, 12) ; Peracetic acid (Product-type 1, 2, 3, 4, 5, 6, 11, 12)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

#### Modifications related to the previous security card which concerns the ways of managing risks. :

Non-applicable

#### Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage

H242: Heating may cause a fire

H335: May cause respiratory irritation

H302: Harmful if swallowed

H226: Flammable liquid and vapour

H314: Causes severe skin burns and eye damage

- CONTINUED ON NEXT PAGE -

## CITROCIDE PLUS

### SECTION 16: OTHER INFORMATION (continue)

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) nº 1272/2008:

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled

Aquatic Acute 1: H400 - Very toxic to aquatic life

Flam. Liq. 3: H226 - Flammable liquid and vapour

Org. Perox. D: H242 - Heating may cause a fire

Ox. Liq. 1: H271 - May cause fire or explosion, strong oxidiser

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage

#### Classification procedure:

Eye Dam. 1: Calculation method

STOT SE 3: Calculation method

Acute Tox. 4: Calculation method

Flam. Liq. 3: Calculation method (2.6.4.3)

Skin Corr. 1A: Calculation method

#### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

#### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -