

**LADI Limpiador Automático De Inodoros****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product Identifier:** LADI Limpiador Automático de Inodoros

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

Relevant identified uses: WC cleaning.

Uses advised against: Every single one not specified in the current epigraph or in epigraph 7.3

**1.3 Details of the Supplier of the security data sheet:**

LOMEDA MEDIO AMBIENTE, S.L.  
C/ SALVADOR DALÍ, 3 Posterior. Local 8  
28933 MOSTOLES -MADRID  
Tfno.: 91 603 48 40  
[www.lomeda.es](http://www.lomeda.es)

**1.4 Emergency telephone number:** Toxicology National Institute: +34 91 562 04 20 (24 hours/365 days). PERS Emergency Response: (9.00 AM-17.00 PM) +34 902 116 836/ +34 91 691 02 63

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Clasification of the substance or mixture:**

**Regulation nº1272/2008 (CLP):**

Classification according to Regulation nº1272/2008 (CLP).

Eye Dam. 1: Serious eye damages, Category 1, H318

Skin Irrit. 2: Skin irritation, Category 2, H315

**2.2 Label Elements:**

**Regulation nº1272/2008 (CLP):**

Danger



**Hazard Statements:**

Eye Dam. 1: H318 –Causes serious eye damage

Skin Irrit. 2: H315 –Causes skin irritation

**Precautionary Statements:**

P101: If medical advice is needed, have the container or label at hand.

P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplementary Information:**

EUH208: Contains 4-tert-butylcyclohexyl acetate, Cineol. It may cause an allergic reaction.

**Hazard-determining components of the labeling:**

Isotridecanol etoxilado < 2.5 mol EO; Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts

**2.3 Hazard(s) not otherwise classified (HNO):**









None known

**LADI Limpiador Automático De Inodoros****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substance:**

Not applicable

**3.2 Mixtures:****Chemical description:** Aqueous mixture of acids and surfactants**Components:**

According to Anexo II of EC-Regulation nº1907/2006 (item 3), the product contains:

Identification	Trade Name/Classification		Concentration
CAS: 69011-36-5 CE: 500-241-6 Index: Not applicable REACH: 01-2119976362-32→XXXX	<b>Isotridecanoletoxilado &lt; 2.5 mol EO</b> Regulation 1272/2008	Autoclasified Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315 –Danger 	5 -<10 %
CAS: 68439-57-6 CE: 270-407-8 Index: Not applicable REACH: 01-2119513401-57→XXXX	<b>Sulfonicacids, C14-16-hydroxy alkane and C14-16-alkene</b> Regulation 1272/2008	Autoclasified Eye Dam. 1: H318; Skin Irrit. 2: H315 –Danger 	5 -<10 %
CAS: 5949-29-1 CE: Not applicable Index: Not applicable REACH: 01-2119457026-42→XXXX	<b>Citricacid monohydrate</b> Regulation 1272/2008	Autoclasified Eye Irrit. 2: H319 –Warning 	5 -<10 %
CAS: 67-63-0 CE: 200-661-7 Index: 603-117-00-0 REACH: 01-2119457558-25→XXXX	<b>Propan-2-ol</b> Regulation 1272/2008	Autoclasified Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 –Danger  	5 -<10 %
CAS: 32210-23-4 CE: 250-954-9 Index: Not applicable REACH: 01-2119976286-24→XXXX	<b>4-tert-butylcyclohexyl acetate</b> Regulation 1272/2008	Autoclasified Skin Sens. 1B: H317 –Warning 	<1 %
CAS: 470-82-6 CE: 207-431-5 Index: Not applicable REACH: 01-2119967772-24→XXXX	<b>Cineol</b> Regulation 1272/2008	Autoclasified Flam. Liq. 3: H226; Skin Sens. 1B: H317 –Warning  	<1 %

For additional information about the characteristics of the substances, check sections 8, 11, 12, 15 and 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures:**

Symptoms as a result of poisoning can occur after exposure, so in case of doubt, direct exposure to the chemical or persistence of discomfort request medical attention, showing the SDS of this product.

**After inhalation:**

It is a product not classified as dangerous by inhalation, however, it is recommended in case of symptoms of poisoning to remove the affected person from the place of exposure, provide clean air and keep it at rest. Seek medical attention in case the symptoms persist.

**After skin contact:**

Remove contaminated clothing and shoes, rinse the skin or shower the affected person if necessary with plenty of cold water and neutral soap. In case of important condition go to the doctor. If the product causes burns or frostbite, do not remove the clothing because it could worsen the injury if it is stuck to the skin. In the case of blisters on the skin, they should never burst as it increases the risk of infection.

**After eye contact:**

Rinse eyes with plenty of water at room temperature for at least 15 minutes. Avoid that the affected person rubs or closes the eyes. In the event that the accident victim wears contact lenses, they should be removed as long as they are not attached to the eyes, otherwise there could be additional damage. In all cases, after washing, you should see the doctor as quickly as possible with the product's SDS.

**After swallowing:**

Do not induce vomiting, in the event of keeping the head tilted forward to avoid aspiration. Keep the patient at rest. Rinse the mouth and throat, as there is a possibility that they have been affected in ingestion.

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

The acute and delayed effects are those indicated in sections 2 and 11.

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

In case of accident contact the Medical Service of Toxicological Information: Tfno 91 562 04 20

**LADI Limpiador Automático De Inodoros****SECTION 5: FIRE-FIGHTING MEASURES****5.1 Extinguishing media:**

Non-flammable product under normal conditions of storage, handling and use, containing flammable substances. In case of inflammation as a result of handling, storage or improper use, preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation of fire protection installations (R.D. 1942/1993 and subsequent amendments). It is NOT RECOMMENDED to use water jet as an extinguishing agent.

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

As a consequence of combustion or thermal decomposition, reaction by products are generated that can be highly toxic and, consequently, can present a high risk to health.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to wear full protective clothing and self-contained breathing apparatus. Have a minimum of emergency facilities or elements of action (fire blankets, portable kit, ...) according to R.D.486 / 1997 and subsequent amendments

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on action against accidents and other emergencies. Remove any source of ignition. In case of fire, refrigerate containers and storage tanks of products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid the spillage of the products used in extinguishing the fire to the aquatic environment.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leakage as long as it does not pose an additional risk to people who perform this function. Evacuate the area and keep people without protection away. In the event of potential contact with the spilled product, the use of personal protection elements is mandatory (see section 8). Prevent as a priority the formation of flammable vapor-air mixtures, either through ventilation or the use of an inerting agent. Remove any source of ignition. Eliminate electrostatic charges through the interconnection of all conductive surfaces on which static electricity can be formed, and the assembly being in turn connected to ground.

**6.2 Environmental precautions:**

Avoid spillage into the aquatic environment because it contains substances dangerous to it. Contain the product absorbed / collected in sealable containers. Notify the competent authority in case of large spillages in the aquatic environment.

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

Absorb spillage with sand or inert absorbent and transfer it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any consideration regarding the elimination 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.- General precautions.**

Comply with current legislation on the prevention of occupational hazards. Keep containers tightly closed. Control spills and residues, eliminating them with safe methods (section 6). Avoid free discharge from the container. Maintain order and cleanliness where hazardous products are handled.

**B.- Information about protection against explosions and fires.**

Avoid evaporation of the product as it contains flammable substances, which can form flammable vapor / air mixtures in the presence of ignition sources. Control sources of ignition (mobile phones, sparks, ...) and transfer at slow speeds to avoid the generation of electrostatic charges. Avoid projections and sprays. See section 10 on conditions and matters to be avoided.

**C.- Technical recommendations to prevent ergonomic and toxicological risks.**

For exposure control consult section 8. Do not eat, drink or smoke in work areas; wash your hands after each use, and remove contaminated clothing and protective equipment before entering the eating areas.

**D.- Technical recommendations to prevent environmental risks.**

It is recommended to have absorbent material in the vicinity of the product (see section 6.3)

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**LADI Limpiador Automático De Inodoros****SECTION 7: HANDLING AND STORAGE (continuation)****7.2 Conditions for safe storage, including any incompatibilities:**

## A.- Technical storage measures

ITC (R.D.379/2001): MIE-APQ-1

Clasificación: B2

Tª mínima: 5 °C

Tª máxima: 40 °C

## B.- General storage conditions

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

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

Except for the indications already specified, it is not necessary to make any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION****8.1 Control Parameters:**

Substances that have a limit of professional exposure in the work environment (INSHT 2017):

Identification	Environmental limit values		
Propan 2-ol CAS: 67-03-0 CE: 200-661-7	VLA-ED	200 ppm	500 mg/m <sup>3</sup>
	VLA-EC	400 ppm	1000 mg/m <sup>3</sup>
	Year	2016	
Diphenyl ether CAS: 101-84-8 CE: 202-981-2	VLA-ED	1 ppm	7,1 mg/m <sup>3</sup>
	VLA-EC	2 ppm	14,2 mg/m <sup>3</sup>
	Year	2016	

CAS 67-63-0 Isopropanol (2011): BIOLOGICAL INDICATOR (BI) = Acetone in urine / LIMIT VALUES VLB = 40 mg/l / MOMENT OF SAMPLING = End of the work week

**DNEL (Workers):**

Identification		Short-term		Long-term	
		Systemic	Local	Systemic	Local
Isotridecanol etoxilado < 2.5 mol EO CAS: 69011-36-5 CE: 500-241-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2080 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	294 mg/m <sup>3</sup>	Not relevant
Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts CAS: 68439-57-6 CE: 270-407-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2158,33 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	152,22 mg/m <sup>3</sup>	Not relevant
Propan-2-ol CAS: 67-63-0 CE: 200-661-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	888 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	500 mg/m <sup>3</sup>	Not relevant
Cineol CAS: 470-82-6 CE: 207-431-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	7,05 mg/m <sup>3</sup>	Not relevant

**DNEL (General Population):**

Identification		Short-term		Long-term	
		Systemic	Local	Systemic	Local
Isotridecanol etoxilado < 2.5 mol EO CAS: 69011-36-5 CE: 500-241-6	Oral	Not relevant	Not relevant	25 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1250 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	87 mg/m <sup>3</sup>	Not relevant
Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts CAS: 68439-57-6 CE: 270-407-8	Oral	Not relevant	Not relevant	12,95 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1295 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	45,04 mg/m <sup>3</sup>	Not relevant
Propan-2-ol CAS: 67-63-0 CE: 200-661-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	888 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	500 mg/m <sup>3</sup>	Not relevant
Cineol CAS: 470-82-6 CE: 207-431-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	7,05 mg/m <sup>3</sup>	Not relevant

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**LADI Limpiador Automático De Inodoros****SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION (continuation)****PNEC:**

Identification				
Isotridecanol etoxilado < 2.5 mol EO CAS: 69011-36-5 CE: 500-241-6	STP	1,4 mg/L	Sweet water	0,074 mg/L
	Soil	0,1 mg/kg	Salt water	0,0074 mg/L
	Intermittent	0,015 mg/L	Sediment (Sweet water)	0,604 mg/kg
	Oral	Not relevant	Sediment (Salt water)	0,0604 mg/kg
Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts CAS: 68439-57-6 CE: 270-407-8	STP	4 mg/L	Sweet water	0,042 mg/L
	Soil	0,0061 mg/kg	Salt water	0,0042 mg/L
	Intermittent	0,042 mg/L	Sediment (Sweet water)	2,025 mg/kg
	Oral	Not relevant	Sediment (Salt water)	0,2025 mg/kg
Citric acid monohydrate CAS: 5949-29-1 CE: Not applicable	STP	1000 mg/L	Sweet water	0,44 mg/L
	Soil	33,1 mg/kg	Salt water	0,044 mg/L
	Intermittent	Not relevant	Sediment (Sweet water)	34,6 mg/kg
	Oral	Not relevant	Sediment (Salt water)	3,46 mg/kg
Propan-2-ol CAS: 67-63-0 CE: 200-661-7	STP	2251 mg/L	Sweet water	140,9 mg/L
	Soil	28 mg/kg	Salt water	140,9 mg/L
	Intermittent	140,9 mg/L	Sediment (Sweet water)	552 mg/kg
	Oral	160 g/kg	Sediment (Salt water)	552 mg/kg
4-tert-butylcyclohexyl acetate CAS: 32210-23-4 CE: 250-954-9	STP	12,2 mg/L	Sweet water	0,0053 mg/L
	Soil	0,42 mg/kg	Salt water	0,00053 mg/L
	Intermittent	0,053 mg/L	Sediment (Sweet water)	2,01 mg/kg
	Oral	66,67 g/kg	Sediment (Salt water)	0,21 mg/kg
Cineol CAS: 470-82-6 CE: 207-431-5	STP	10 mg/L	Sweet water	0,057 mg/L
	Soil	0,2 mg/kg	Salt water	0,0057 mg/L
	Intermittent	0,57 mg/L	Sediment (Sweet water)	0,06732 mg/kg
	Oral	133 g/kg	Sediment (Salt water)	0,00673 mg/kg

**8.2 Exposure controls:**


A.- General safety and hygiene measures in the work environment:

As a preventive measure, the use of basic personal protective equipment is recommended, with the corresponding "CE marking" according to R.D.1407 / 1992 and subsequent modifications. For more information on personal protection equipment (storage, use, cleaning, maintenance, protection class, ...) consult the information leaflet provided by the EPI manufacturer. The indications contained in this point refer to the pure product. The protection measures for the diluted product may vary depending on its degree of dilution, use, method of application, etc. To determine the obligation of installation of emergency showers and / or eyewash in the warehouses, the regulations regarding the storage of chemical products applicable in each case will be taken into account. For more information, see sections 7.1 and 7.2. All the information included here is a recommendation, being necessary for it to be specified by the occupational risk prevention services when the additional prevention measures that the company could have are unknown.

B.- Respiratory protection care



It will be necessary to use protective equipment in case of fog formation or in case of exceeding the professional exposure limits if they exist (See Section 8.1).

C.- Specific protection of hands

Pictogram	EPI	Marked	CEN standards	Observations
 Mandatory protection of hands	Protective gloves against minor risks			Replace gloves with any indication of deterioration. For prolonged periods of exposure to the product for professional / industrial users, the use of EC III gloves is recommended, in accordance with standards EN 420 and EN 374



Because the product is a mixture of different materials, the resistance of the glove material can not be calculated in advance with total reliability and therefore has to be checked before its application.

D.- Eye and facial protection



Pictogram	EPI	Marked	CEN standards	Observations
 Mandatory protection of the face	Panoramic glasses against splashes and/or projections			Clean daily and disinfect periodically according to the manufacturer's instructions. Its use is recommended in case of risk of splashing.

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**LADI Limpiador Automático De Inodoros****SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION (continuation)****E.- Corporal protection**

Pictogram	EPI	Marked	CEN standards	Observations
	Work clothing			Replace gloves with any indication of deterioration. For prolonged periods of exposure to the product for professional / industrial users, the use of EC III is recommended, in accordance with standards EN ISO 6529:2001, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994
	Anti-slip work footwear		EN ISO 20347:2012	Replace gloves with any indication of deterioration. For prolonged periods of exposure to the product for professional / industrial users, the use of EC III is recommended, in accordance with standards EN ISO 20345 and EN 13832-1

**F.- Emergency supplementary measures**

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

**Environmental exposure controls:**

Under Community legislation for the protection of the environment, it is recommended to avoid spilling both the product and its packaging into the environment. For additional information, see section 7.1.D.

**Volatile organic compounds:**

In application of R.D.117 / 2003 and subsequent modifications (Directive 2010/75 / EU), this product has the following characteristics:

C.O.V. (Supply):	6,36 % weight
Concentration C.O.V. at 20 °C:	66,42 kg/m <sup>3</sup> (66,42 g/L)
Average carbón number:	4,47
Average molecular weight:	80,92 g/mol

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties:**

To complete the information see the technical sheet / product specification sheet.

**Physical appearance:**

Physical state at 20 °C:	Liquid
Appearance:	Transparent
Color:	Yellowish
Odor:	Scented
Odor threshold:	Not relevant*

**Volatility:**

Boiling temperature at atmospheric pressure:	100 °C
Steam pressure at 20°C:	2418 Pa
Steam pressure at 50°C:	12706 Pa (13 kPa)
Evaporation rate at 20°C:	Not relevant*

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

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**LADI Limpiador Automático De Inodoros****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continuation)****Characterization of the product:**

Density at 20 °C:	1043 -1047 kg/m <sup>3</sup>
Relative density at 20 °C:	1,043 -1,047
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH-value:	2,5 -3,5
Steam density at 20 °C:	Not relevant *
Partition coefficient n-octanol/ water at 20 °C:	Not relevant *
Solubility in water at 20°C:	Not relevant *
Solubility property:	Soluble en agua
Decomposition temperature:	Not relevant *
Melting point/ freezing point:	Not relevant *
Explosive properties:	Not relevant *
Oxidizing properties:	Not relevant *

**Inflammability:**

Flashpoint:	50 °C (Does not keep combustion)
Flammability (solid, gaseous):	Not relevant *
Auto-inflammation temperature:	235 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

**9.2 Other data:**

Surface tension at 20 °C:	Not relevant *
Refractive index:	Not relevant *

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

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity:**

Hazardous reactions are not expected if the technical instructions for the storage of chemical products are met. See section 7.

**10.2 Chemical stability:**

Stable chemically under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the conditions indicated, no dangerous reactions are expected that can produce excessive pressure or temperatures.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and Friction	Contact with the air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Warning	Warning	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidizing substances	Combustible materials	Other
Avoid strong acids	Not applicable	Avoid direct exposure	Not applicable	Avoid alkalis or strong bases

**10.6 Hazardous decomposition products:**

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

**LADI Limpiador Automático De Inodoros****SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects:**

No experimental data on the product itself are available regarding the toxicological properties

**Hazardous effects for health:**

In case of repeated, prolonged exposure or at concentrations higher than those established by occupational exposure limits, adverse health effects may occur depending on the route of exposure:

**A.- Ingestion (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, not presenting substances classified as dangerous by ingestion. For more information see section 3.
- Corrosion/irritation: The ingestion of a significant dose can cause throat irritation, abdominal pain, nausea and vomiting.

**B.- Inhalation (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, not presenting substances classified as dangerous by inhalation. For more information see section 3.
- Corrosion/irritation: Based on available data, the classification criteria are not met, not presenting substances classified as dangerous by this effect. For more information see section 3.

**C.- On the skin or on the eye (acute effect):**

- On the skin: Causes cutaneous inflammation.
- On the eye: Causes serious eye injuries after contact.

**D.- CMR effects (carcinogenicity, mutagenicity and reproductive toxicity):**

- Carcinogenicity: Based on available data, the classification criteria are not met, not presenting substances classified as dangerous by the effects described. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, not presenting substances classified as dangerous by this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, not presenting substances classified as dangerous by this effect. For more information see section 3.

**E.- Sensitization effects:**

- Respiratory: Based on available data, the classification criteria are not met, not presenting substances classified as dangerous with sensitizing effects above the limits set out in point 3.2 of Regulation (EC) 2015/830. For more information see sections 2, 3 and 15.
- Dermal: Based on available data, the classification criteria are not met, however, it presents substances classified as dangerous with sensitizing effects. For more information see section 3.

**F.- STOT - single exposure:**

Based on available data, the classification criteria are not met, however, it presents substances classified as dangerous by inhalation. For more information see section 3.

**G.- STOT – repeated exposure:**

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

**H.- Aspiration hazard:**

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

**Additional information:**

Not relevant.

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**LADI Limpiador Automático De Inodoros****SECTION 11: TOXICOLOGICAL INFORMATION (continuation)****Specific toxicological information of the substances:**

Identification	Acute toxicity		Species
Citric acid monohydrate CAS: 5949-29-1 CE: Not applicable	LD50 Oral	3000 mg/kg	Rat
	LD50 Dermal	5500 mg/kg	Rat
	LC50 Inhalation	Not relevant	
Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts CAS: 68439-57-6 CE: 270-407-8	LD50 Oral	2290 mg/kg	Rat
	LD50 Dermal	6300 mg/kg	Rabbit
	LC50 Inhalation	Not relevant	
Propan-2-ol CAS: 67-63-0 CE: 200-661-7	LD50 Oral	5280 mg/kg	Rat
	LD50 Dermal	12800 mg/kg	Rat
	LC50 Inhalation	72,6 mg/L (4 h)	Rat
4-tert-butylcyclohexyl acetate CAS: 32210-23-4 CE: 250-954-9	LD50 Oral	3370 mg/kg	
	LD50 Dermal	Not relevant	
	LC50 Inhalation	Not relevant	
Cineol CAS: 470-82-6 CE: 207-431-5	LD50 Oral	2480 mg/kg	Rat
	LD50 Dermal	Not relevant	
	LC50 Inhalation	Not relevant	

**SECTION 12: ECOLOGICAL INFORMATION**

Experimental data of the mixture itself are not available relative to the ecotoxicological properties.

**12.1 Toxicity:**

Identification	Acute toxicity		Species	Genus
Isotridecanol etoxilado < 2.5 mol EO CAS: 69011-36-5 CE: 500-241-6	LC 50	10 – 100 mg/L (96 h)		Fish
	EC 50	10 – 100 mg/L		Crustacean
	EC 50	10 – 100 mg/L		Alga
Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts CAS: 68439-57-6 CE: 270-407-8	LC 50	4,2 mg/L (96 h)	Brachydanio rerio	Fish
	EC 50	4,53 mg/L (48 h)	Daphnia magna	Crustacean
	EC 50	5,2 mg/L (72 h)	Skeletonema costatum	Alga
Citric acid monohydrate CAS: 5949-29-1 CE: Not applicable	LC 50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
	EC 50	120 mg/L (48 h)	Daphnia magna	Crustacean
	EC 50	Not relevant		
Propan-2-ol CAS: 67-63-0 CE: 200-661-7	LC 50	9640 mg/L (96 h)	Pimephales promelas	Fish
	EC 50	13299 mg/L (48 h)	Daphnia magna	Crustacean
	EC 50	1000 mg/L (72 h)	Scenedesmus subspicatus	Alga

**12.2 Persistence and degradability:**

Identification	Degradability		Biodegradability	
Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts CAS: 68439-57-6 CE: 270-407-8	BDO5	Not relevant	Concentration	20 mg/L
	COD	Not relevant	Term	28 days
	BDO5/COD	Not relevant	% Biodegraded	96 %
Citric acid monohydrate CAS: 5949-29-1 CE: Not applicable	BDO5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Term	5 days
	BDO5/COD	Not relevant	% Biodegraded	72 %
Propan-2-ol CAS: 67-63-0 CE: 200-661-7	BDO5	1.19 g O <sub>2</sub> /g	Concentration	100 mg/L
	COD	2.23 g O <sub>2</sub> /g	Term	14 days
	BDO5/COD	0.53	% Biodegraded	86 %

**12.3 Bioaccumulative potential:**

Identification	Bioaccumulative potential	
Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts CAS: 68439-57-6 CE: 270-407-8	BCF	71
	Log POW	-1,3
	Potential	Moderate
Citric acid monohydrate CAS: 5949-29-1 CE: Not applicable	BCF	3
	Log POW	-1,64
	Potential	Low
Propan-2-ol CAS: 67-63-0 CE: 200-661-7	BCF	3
	Log POW	0,05
	Potential	Low
Cineol CAS: 470-82-6 CE: 207-431-5	BCF	
	Log POW	2,74
	Potential	

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**LADI Limpiador Automático De Inodoros****SECTION 12: ECOLOGICAL INFORMATION (continuation)****12.4 Mobility in soil:**

Identification	Acute toxicity		Volatility	
Sulfonic acids, C14-16-hydroxy alkane and C14-16-alkene, sodium salts CAS: 68439-57-6 CE: 270-407-8	Koc	1,6	Henry	6,7E-2 Pa m <sup>3</sup> /mol
	Conclusion	Very high	Dry soil	Yes
	Surface tension	Not relevant	Wet soil	Yes
Citric acid monohydrate CAS: 5949-29-1 CE: Not applicable	Koc	3,1	Henry	4,3E-14 Pa m <sup>3</sup> /mol
	Conclusion	Very high	Dry soil	No
	Surface tension	Not relevant	Wet soil	No
Propan-2-ol CAS: 67-63-0 CE: 200-661-7	Koc	1,5	Henry	8,207E-1 Pa m <sup>3</sup> /mol
	Conclusion	Very high	Dry soil	Yes
	Surface tension	2,24E-2 N/m (25 °C)	Wet soil	Yes
Cineol CAS: 470-82-6 CE: 207-431-5	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	3,24E-2 N/m (25 °C)	Wet soil	Not relevant

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

Not applicable

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods:**

Code	Description	Type of Residue (Regulation (EU), n° 1357/2014)
	It is not possible to assign a specific code, since it depends on the user's use.	Hazardous

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

HP4 Irritant - skin irritation and eye injuries

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

Consult the authorized waste manager for recovery and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98 / EC, Law 22/2011). According to codes 15 01 (2014/955 / EU). In the case that the container has been in direct contact with the product, it will be managed in the same way as the product itself, otherwise it will be managed as non-hazardous waste. It is discouraged its discharge to water courses. See section 6.2.

**Legislative provisions related to waste management:**

Community legislation: Directive 2008/98 / CE, 2014/955 / EU, Regulation (EU) No. 1357/2014 National legislation: Law 22/2011 According to Annex II of Regulation (EC) n°1907 / 2006 (REACH), the following are included: Community or state provisions related to waste management.

**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated for transport (ADR / RID, IMDG, IATA)

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Substances candidates for authorization in Regulation (EC) 1907/2006 (REACH): Not relevant

Substances included in Annex XIV of REACH (authorization list) and expiration date: Not relevant

Regulation (EC) 1005/2009, on substances that deplete the ozone layer: Not relevant

Active substances which have been included in Article 95 of Regulation (EU) No. 528/2012: Propan-2-ol (included for product type 1, 2, 4)

REGULATION (EU) No 649/2012, on the export and import of dangerous chemicals: Not relevant

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**LADI Limpiador Automático De Inodoros****SECTION 15: REGULATORY INFORMATION (continuation)****Regulation (EC) No.648 / 2004 on detergents:**

According to this regulation, the product complies with the following:

The surfactants contained in this mixture meet the biodegradability criteria stipulated in Regulation (EC) No. 648/2004 on detergents. The data justifying this statement are available to the competent authorities of the Member States and will be shown to them under direct request or at the request of a detergent producer.

**Content labeling:**

Component	Concentration range
A nionic surfactants	5 <= % (p/p) < 15
Nonionic surfactants	5 <= % (p/p) < 15
Fragrance	

**Labeling in accordance with the Health Technical Regulations (R.D.770 / 1999):**

Keep out of reach of children. Do not eat. In case of accident, consult the Toxicological Information Medical Service, telephone 91 562 04 20.

**Restrictions on the marketing and use of certain dangerous substances and mixtures (Annex XVII of the REACH Regulation, etc ...):**

Not relevant

**Specific provisions on the protection of persons or the environment:**

It is recommended to use the information collected in this safety data sheet as input data in a risk assessment of local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislations:**

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, and amending and repealing Directives 67/548 / EEC and 1999/45 / EC and Regulation (EC) No 1907/2006 is amended
- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents and subsequent amendments
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents in order to adapt their Annexes V and VI (exception on a surfactant)
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents in order to adapt their Annexes III and VII
- ROYAL DECREE 770/1999, of May 7, which approves the technical-sanitary regulation for the elaboration, circulation and trade of detergents and cleaners.

**15.2 Chemical safety assessment:**

The supplier has not carried out a chemical safety assessment.

**SECTION 16: OTHER INFORMATION****Legislation applicable to safety data sheets:**

This safety data sheet has been developed according to ANNEX II-Guide for the production of Safety Data Sheets of Regulation (EC) No. 1907/2006 (Regulation (EU) No. 2015/830)

**Modifications to the previous safety data sheet that affect the risk management measures:**

Not relevant

**Texts of the legislative phrases referred to in section 2:**

H318: Causes serious eye damage  
H315: Causes skin irritation

**Texts of the legislative phrases referred to in section 3:**

The phrases indicated do not refer to the product itself, are for information only and refer to the individual components that appear in section 3

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**LADI Limpiador Automático De Inodoros****SECTION 16: OTHER INFORMATION (continuation)****Regulation No. 1272/2008 (CLP):**

Aquatic Chronic 3: H412 –Harmful to aquatic life with long lasting effects  
Eye Dam. 1: H318 –Causes serious eye damage  
Eye Irrit. 2: H319 –Causes serious eye irritation  
Flam. Liq. 2: H225 –Highly flammable liquid and vapour  
Flam. Liq. 3: H226 –Flammable liquid and vapour  
Skin Irrit. 2: H315 –Causes skin irritation  
Skin Sens. 1B: H317 –May cause an allergic skin reaction  
STOT SE 3: H336 –May cause drowsiness and dizziness

**Classification procedure:**

Eye Dam. 1: Method of calculation  
Skin Irrit. 2: Method of calculation

**Advise regarding training:**

We recommend minimum training in the area of occupational risk prevention to the personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as the product labeling.

**Main bibliographic sources:**

<http://esis.jrc.ec.europa.eu>  
<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

-ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
-RID: International Regulations Concerning the Carriage of Dangerous Goods by Rail  
-IMDG: International Maritime Code for Dangerous Goods  
-IATA: International Air Transport Association  
-ICAO: International Civil Aviation Organization  
-COD: Chemical Oxygen Demand  
-BOD5: Five-Day Biochemical Oxygen Demand  
-BCF: bioconcentration factor  
-LD50: lethal dose 50  
-LC50: lethal concentration 50  
-EC50: effective concentration 50  
-Log POW: logarithm of the octanol/water partition coefficient  
-Koc: carbon partition coefficient

The information contained in this Safety Data Sheet is based on sources, technical knowledge and current legislation at European and state level, and can not guarantee the accuracy of it. This information can not be considered as a guarantee of the properties of the product, it is simply a description of the security requirements. The methodology and working conditions of the users of this product are beyond our knowledge and control, and it is always the user's ultimate responsibility to take the necessary measures to adapt to the legislative requirements regarding handling, storage, use and disposal of chemical products. The information in this safety data sheet only refers to this product, which should not be used for purposes other than those specified.

- END OF THE SECURITY DATA SHEET -