[X] Industrial [X] Professional [_] Consumers



GERMINOX RE Code: 61/176



Version: 8 Revision: 30/05/2015 Previous revision: 21/06/2012 Date of printing: 08/09/2015

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

GERMINOX RE PRODUCT IDENTIFIER: Code: 61/176

RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST: 1.2

Intended uses (main technical functions):

Food and feed area disinfectant.

Uses advised against: # This product is not recommended for any use or sector of use industrial, professional or consume other than those previously listed as 'Intended or identified uses'. If your use is not covered, please contact the supplier of this material safety data sheet. Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: 1.3

SALLÓ KYRA, S.L.

Compositor Bach 17-19 Naves 2-3-4 P.I. Can Jardí - E-08191 - Rubí (Barcelona)

Phone: +34 93 5880846 - Fax: +34 93 5881644

E-mail address of the person responsible for the safety data sheet:

lab.sallo@sallo.es

1.4 EMERGENCY TELEPHONE NUMBER: +34 93 5880846 (9:00-13:00 / 15:00-18:00 h.) (working hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE ORMIXTURE:

lassification in accordance with Regulation (EC) No. 1272/2008~605/2014 (CLP):

DANGER: Flam. Liq. 2:H225 | Aquatic Chronic 3:H412

Danger class	Classification of the mixture	Cat.	Routes of exposure	Targetorgans	Effects
Physicochemical:	Flam. Liq. 2:H225 Aquatic Chronic 3:H412	Cat.2 Cat.3	-	-	-
Human health: Not classified					
Environment:					

Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):

Full text of hazard statements and risk phrases mentioned is indicated in section 16.

LABEL ELEMENTS: 22



This product is labelled with the signal word DANGER in accordance with Regulation (EC) No. 1272/2008~605/2014 (CLP)

Hazard statements:

Highly flammable liquid and vapour. H225

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P102 Keep out of reach of children.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

P233-P403+P235 Keep container tightly closed. Store in a well-ventilated place. Keep cool.

P280D Wear protective gloves, clothing and face/eye protection.

Avoid release to the environment. Dispose of contents/container as hazardous waste. P273-P501c

upplementary statements:

EUH208 Contains glyoxal. May produce an allergic reaction.

Hazardous ingredients:

None in a percentage equal to or higher than the limit for the name.

2.3

Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:

Other physicochemical hazards: # Vapours may form with air a mixture potentially flammable or explosive.

Other adverse human health effects: # Prolonged exposure to vapours may produce transient drowsiness. In case of prolonged contact, the skin may become dry.

Other negative environmental effects: # Does not contain substances that fulfil the PBT/vPvB criteria.





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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES

Not applicable (mixture).

3.2 **MIXTURES**:

This product is a mixture.

Chemical description

Solution of ethyl alcohol in aqueous media.

HAZARDOUS INGREDIENTS:

Substances taking part in a percentage higher than the exemption limit:

30 < 40 % Ethyl alcohol

(!)

(?)(!)(

CAS: 64-17-5, EC: 200-578-6

REACH: 01-2119457610-43

Index No. 603-002-00-5 < ATP12

< REACH

< ATP29

DSD: F:R11 CLP: Danger: Flam. Liq. 2:H225 | Eye Irrit. 2:H319 1 < 2 %

Didecyldimethylammonium chloride CAS: 7173-51-5, EC: 230-525-2 DSD: Xn:R22 | C:R34 | N:R50

Index No. 612-131-00-6 < ATP24 < Autoclasificada

Index No. 605-016-00-7

< Autoclasificada

(Note B)

CLP: Danger: Acute Tox. (oral) 4:H302 | Skin Corr. 1B:H314 | Aquatic Acute 1:H400 | Aquatic Chronic 2:H411

Glyoxal

< 1 %

CÁS: 107-22-2, EC: 203-474-9

DSD: Muta.Cat.3:R68 | Xn:R20 | Xi:R36/38 | R43

CLP: Warning: Acute Tox. (inh.) 4:H332 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | Skin Sens. 1:H317 |

Muta. 2:H3410 | STOT SE (irrit.) 3:H335

Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:

 $\langle \rangle \langle \cdot \rangle$

None

Reference to other sections:

For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 19/08/2014.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:

Does not contain substances that fulfill the PBT/vPvB criteria.

SECTION 4: FIRST AID MEASURES

4.2

4.1

DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Lifeguarders should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	Inhalation produces coughing with soreness in the throat and respiratory tract.	Control the breath. If necessary, artificial respiration.
Skin:	Skin contact causes redness.	# Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.
Eyes:	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. Call a physician immediately.
Ingestion:	If swallowed, may cause irritation of the mouth, throat and esophagus.	If swallowed, seek medical advice immediately and show container or label. Do not administer anything by mouth. Do not induce vomiting.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: 4.3

Notes to physician: Do not leave alone the intoxicated under any circumstances. Treatment should be directed at the control of symptoms and the clinical condition of the patient.

Antidotes and contraindications: Specific antidote not know.





SECTION 5: FIRE-FIGHTING MEASURES

5.1 **EXTINGUISHING MEDIA:**

Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: 5.2

As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 **ADVICE FOR FIREFIGHTERS:**

Special protective equipment: # Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.

Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENTAND EMERGENCY PROCEDURES:

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opossition to the wind direction.

6.2

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Keep the remains in a closed container.

6.4 **REFERENCE TO OTHER SECTIONS:**

For contact information in case of emergency, see section 1.

For information on safe handling, see section 7.

For exposure controls and personal protection measures, see section 8.

For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: 7.1

Comply with the existing legislation on health and safety at work.

General recommendations:

Avoid any type of leakage or escape. Keep the container tightly closed.

Recommendations for the prevention of fire and explosion risk

Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.

· Flash point Autoignition temperature

423. Upper/lower flammability or explosive limits 3.3 - 19.0 % Volume 25°C

Recommendations for the prevention of toxicological risks:

Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

32. ٥С

min: 4. °C, max: 40. °C (recommended).

Recommendations for the prevention of environmental contamination:

It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES.

Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

Class of store

According to current legislation. Maximum storage period 24. months

Temperature interval

Incompatible materials:

Keep away fro.

Type of packaging:

According to current legislation.

Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:

Lower threshold: 5000 tons, Upper threshold: 50000 tons

SPECIFIC END USES 7.3

For the use of this product do not exist particular recommendations apart from that already indicated.





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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

3.1 CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assesing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2012	<u>Year</u>	TLV-TWA		TLV-STEL		<u>Observations</u>
		ppm	mg/m3	ppm	mg/m3	
Ethyl alcohol 2	1996	1000.	1880.	-	-	A4
Glyoxal	2000	-	0.10	-	-	A4 Sc

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

Sc - May cause sensitization by skin contact.

A4 - Non classified as carcinogenic in humans.

BIOLOGICAL LIMIT VALUES:

Not stablished

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers: - Systemic effects, acute and chronic: Ethyl alcohol	DNEL Inhalation	DNEL Cutaneous	DNEL Oral
	mg/m3	mg/kg bw/d	mg/kg bw/d
	s/r (a) 950. (c)	s/r (a) 343. (c)	- (a) - (c)
Derived no-effect level, workers: - Local effects, acute and chronic: Ethyl alcohol	DNEL Inhalation	DNEL Cutaneous	DNEL Eyes
	mg/m3	mg/cm2	mg/cm2
	1900. (a) s/r (c)	s/r (a) s/r (c)	- (a) - (c)

Derived no-effect level, general population:

Not applicable (product for professional or industrial use).

- (a) Acute, short-term exposure, (c) Chronic, long-term or repeated exposure.
- (-) DNEL not available (without data of registration REACH).
- s/r DNEL not derived (not identified hazard).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermitent release: Ethyl alcohol	PNEC Fresh water mg/l 0.960	PNEC Marine mg/l 0.790	PNEC Intermittent mg/l 2.75
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Ethyl alcohol	PNEC STP mg/l 580.	PNEC Sediments mg/kg dry weight 3.60	PNEC Sediments mg/kg dry weight 2.90
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans: Ethyl alcohol	PNEC Air mg/m3	PNEC Soil mg/kg dry weight 0.630	PNEC Oral mg/kg bw/d 720.

(-) - PNEC not available (without data of registration REACH).





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8.2 **EXPOSURE CONTROLS:**

ENGINEERING MEASURES:











Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system: Avoid the inhalation of vapours. Avoid the inhalation of particles or spray mist arising from the application of this

preparation.

Protection of eyes and face: # It is recommended to dispose of water taps, sources or eyewash bottles with clean water close to the working area. Protection of hands and skin: # It is recommended to dispose of water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:	# No, unless ventilation is insufficient. No, unless there is a probability of exposure over the Occupational Exposure Limit of the product. Mask for gases and vapours (EN14387).
Goggles:	# Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.
Face shield:	No.
Gloves:	# Gloves resistant against chemicals (EN374). Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.
Boots:	No.
Apron:	No.
Clothing:	# No.

Thermal hazards:

Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.





Relative water

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance Physical state

Colour Odour

Odour threshold

pH-value

- pH Change of state

- Melting point

Initial boiling point

Density

Vapour density Relative density

Stability

Decomposition temperature

Viscosity:
- Viscosity (flow time)

Volatility:

Vapour pressure Vapour pressure

Solubility(ies)

Solubility in water:

- Solubility in oils and fats:

Flammability: - Flash point

Upper/lower flammability or explosive limits

Autoignition temperature

Explosive properties

Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.

Oxidizing properties

Not classified as oxidizing product.

9.2 OTHER INFORMATION:

- Surface tension - Heat of combustion

- VOC (supply)

306.5 g/l The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet

of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

Liquid.

Colourless. Characteristic

Not available

Not available

Not available

Miscible

Not available

Not available (mixture).

< 1 (lighter than air).

6. ± 1. 50 g/l at 20°C

 0.97 ± 0.03 at 20/4°C

78.3 °C at 760 mmHg

21.7 mmHg at 20°C

14.9 kPa at 50°C

32. °C 3.3 - 19.0 % Volume 25°C 423. °C

50.4 din/cm at 20°C

2232. Kcal/kg

SECTION 10: STABILITY AND REACTIVITY

10.1 **REACTIVITY:**

Corrosivity to metals: It is not corrosive to metals. Pyrophorical properties: It is not pyrophoric.

10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: 10.3

Possible dangerous reaction with oxidizing agents.

10.4 CONDITIONS TO AVOID:

Heat: Keep away from sources of heat.

Light: If possible, avoid direct contact with sunlight.

Air: Not applicable.

Pressure: Not applicable.

Shock: Not applicable.

INCOMPATIBLE MATERIALS: 10.5

Keep away fro.

HAZARDOUS DECOMPOSITION PRODUCTS: 10.6

As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

MATERIAL SAFETY DATA SHEET (REACH)

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010



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SECTION 11: TOXIC OLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~605/2014 (CLP).

INFORMATION ON TOXICOLOGICAL EFFECTS: 11.1

ACUTE TOXICITY:

Dose and lethal concentrations	DL50 (OECD 401)	DL50 (OECD 402)	CL50 (OECD 403)
for individual ingredients :	mg/kg oral	mg/kg cutaneous	mg/m3.4h inhalation
Ethyl alcohol	10470. Rat	> 20000. Rabbit	> 20000. Rat
Didecyldimethylammonium chloride	329. Rat	3342. Rabbit	
Glyoxal	3300. Rat	> 2000. Rat	> 2440. Rat

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EX POSURE: Acute toxicity:

IN ORWINTON ON EINEET NOOTES OF EXPOSORE Acute toxicity.					
Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed		
Inhalation: Not classified	ETA > 20000 mg/m3	-	# Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).		
Skin: Not classified	ETA > 2000 mg/kg	-	# Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).		
Eyes: Not classified	Not available	-	# Not classified as a product with acute toxicity by eye contact (lack of data).		
Ingestion: Not classified	ETA > 5000 mg/kg	-	# Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).		

CORROSION/IRRITATION/SENSITISATION:

Danger class	Targetorgans	Cat.	Main effects, acute and/or delayed
Respiratory corrosion/irritation: Not classified	-	-	# Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).
Skin corrosion/irritation: Not classified	-	-	# IRRITANT: Causes skin irritation.
Serious eye damage/irritation: Not classified	-	-	# IRRITANT: Causes serious eye irritation.
Respiratory sensitisation: Not classified	-	-	# Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
Skin sensitisation: Not classified	-	-	# Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).

· Contains glyoxal. May produce an allergic reaction.

ASPIRATION HAZARD:

Danger class	Targetorgans	Cat.	Main effects, acute and/or delayed		
Aspiration hazard: Not classified	-		# Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).		

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:

Carcinogenic effects: # Is not considered as a carcinogenic product.
Genotoxicity: # Is not considered as a mutagenic product.

Toxicity for reproduction: # Do not harm fertility. Do not harm the fetus developping.

Effects via lactation: Not classified as a hazardous product for children breast-fed.





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DELAYED AND IMMEDIATE EFFECTS AS WELLAS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.

Short-term exposure: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.

Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINE TICS, METABOLISM AND DISTRIBUTION:

Dermal absorption: Not available. Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:

Not available.

SECTION 12: ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using

12.1	TOXICITY:							
	Acute toxicity in aquatic environment for individual ingredients: Ethyl alcohol Didecyldimethylammonium chloride Glyoxal	CL50 (OECD 203) mg/l.96hours 14200. Fishes 0.49 Fishes 86. Fishes	CE50 (OECD 202) mg/l.48hours 5012. Daphnia 0.057 Daphnia 161. Daphnia	CE50 (OECD 201) mg/l.72hours				
	No observed effect concentration Not available Lowest observed effect concentration Not available							
2.2	PERSISTENCE AND DEGRADABILITY: # Not available.			_				
	Aerobic biodegradation for individual ingredients : Ethyl alcohol Didecyldimethylammonium chloride Glyoxal	DQO mgO2/g ~ 1700. 827.	%DBO5/DQO 5 dias 14 dias 28 dias	Biodegradability Easy Easy Easy Easy				
2.3	BIOACCUMULATIVE POTENTIAL: Not available.							
	Bioaccumulation for individual ingredients : Ethyl alcohol Didecyldimethylammonium chloride Glyoxal	-0.310 0.380 -1.65	BCF L/kg 3.2 (calculated) 81. (calculated) 3.2 (calculated)	Potential No bioaccumulable Not available No bioaccumulable				
2.4	MOBILITY IN SOIL: # Not available.							
2.5	RESULTS OF PBT AND VPVB ASSESMENT: Annex # Does not contain substances that fulfill the PBT/vPvB	x XIII of Regulation (EC) no. 1907/2006:						
2.6	OTHER ADVERSE EFFECTS: Ozone depletion potential: Not available. Photochemical ozone creation potential: Not available Earth global warming potential: In case of fire or incin Endocrine disrupting potential: Not available.	e. eration liberates CO2.						

WASTE TREATMENT METHODS: Directive 2008/98/EC: 13.1

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

<u>Disposal of empty containers:</u> Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC:

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification,)in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Controlled incineration in special facilities for chemical waste, but in accordance with local regulations. Contains halogenated compounds: In the case of incineration, take all necessary measures in order to avoid production and emission of furanes and dioxines into the atmosphere above the legal limits allowed.





(Special provision 640E)

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SECTION 14: TRANSPORT INFORMATION

14.1 <u>UN NUMBER:</u> 1993

14.2 UN PROPER SHIPPING NAME:

FLAMMABLE LIQUID, N.O.S. (contains ethyl alcohol, in solution)

14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:

Transport by road (ADR 2013) and Transport by rail (RID 2013):

- Class: 3
- Packaging group: III
- Classification code: F1

Tunnel restriction code:
 Transport category:
 Limited quantities:
 (D/E)
 3, max. ADR 1.1.3.6. 1000 L
 5 L (see total exemptions ADR 3.4)

- Transport document: Consignment paper.

- Instructions in writing: ADR 5.4.3.4

Transport by sea (IMDG 36-12):

- Class: 3
- Packaging group: II
- Emergency Sheet (EmS): F-E,S_E
- First Aid Guide (MFAG): 340
- Marine pollutant: No.

- Transport document: Shipping Bill of lading.

Transport by air (ICAO/IATA 2013):

- Class: 3 - Packaging group: II

- Transport document: Air Bill of lading.

Transport by inland waterways (ADN):

Not available.

14.5 <u>ENVIRONMENTAL HAZARDS:</u>

Not applicable (not classified as hazardous for the environment).

14.6 <u>SPECIAL PRECAUTIONS FOR USER:</u>

Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are in a vertical position and sure. Ensure adequate ventilation.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

Not available.

14.7

SECTION 15: REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:

The regulations applicable to this product generally are listed throughout this material safety data sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Control of the risks inherent in major accidents (Seveso III): See section 7.2

Tactile warning of danger: Not applicable (the classification criteria are not met).

Child safety protection: Not applicable (the classification criteria are not met).

Legislación específica sobre productos biocidas

It is applicable the Regulation (EU) No. 528/2012~334/1014, concerning the placing on the market and use of biocidal products and the Regulation (EC) No. 1896/2000~1451/2007 on biocidal products. PT2/4) Private area and public health area disinfectant. Food and feed area disinfectant. Contains didecyldimethylammonium chloride 1.0% p/p, glyoxal 0.80% p/p. Read attached instructions before use.

OTHER REGULATIONS:

Not available

15.2 CHEMICAL SAFETY ASSESSMENT:

Not applicable (mixture).







MATERIAL SAFETY DATA SHEET (REACH)

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010



GERMINOX RE Code: 61/176



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SECTION 16: OTHER INFORMATION

16.1 TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according the Regulation (EC) No. 1272/2008~790/2009 (CLP), Annex III:

H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H3410 Suspected of causing genetic defects if swallowed.

R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex III:

R11 Highly flammable. R20 Harmful by inhalation. R22 Harmful if swallowed. R34 Causes burns. R43 May cause sensitization by skin contact. R50 Very toxic to aquatic organisms. R68 Possible risks of irreversible effects. R36/38 Irritating to eyes and skin.

Notes related to the identification, classification and labelling of the substances:

Note B: Some substances are placed on the market in aqueous solutions at various concentrations and these solutions require different classification als labelling since the hazards vary at different concentrations.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- # · European Chemicals Agency: ECHA, http://echa.europa.eu/
- # · Access to European Union Law, http://eur-lex.europa.eu/
- · European Chemicals Bureau: Existing Chemicals, http://esis.jrc.ec.europa.eu/
- · Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- · Threshold Limit Values, (AGCIH, 2011).
- · European agreement on the international carriage of dangerous goods by road, (ADR 2013).
- · International Maritime Dangerous Goods Code IMDG including Amendment 36-12 (IMO, 2012).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:

- # · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- # · DSD: Dangerous Substances Directive.
- # · DPD: Dangerous Preparations Directive.
- # · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- # · CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.
- # · EINECS: European Inventory of Existing Commercial Chemical Substances.
- # · ELINCS: European List of Notified Chemical Substances.
- # · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- # · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials).
- # · SVHC: Substances of Very High Concern.
- # · PBT: Persistent, bioaccumulable and toxic substances.
- # · vPvB: Very persistent and very bioaccumulable substances.
- # · VOC: Volatile Organic Compounds.
- # · DNEL: Derived No-Effect Level (REACH).
- # · PNEC: Predicted No-Effect Concentration (REACH).
- # · LD50: Letal dose, 50 percent.
- # · LC50: Letal concentration, 50 percent.
- # · UN: United Nations Organisation.
- # · ADR: European agreement concerning the international carriage of dangeous goods by road.
- # · RID: Regulations concerning the international transport of dangeous goods by rail.
- # · IMDG: International Maritime code for Dangerous Goods.
- # · IATA: International Air Transport Association.
- # · ICAO: International Civil Aviation Organization.

MATERIAL SAFETY DATA SHEET REGULATIONS:

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.

 HISTORY:
 Revision:

 Version:
 7
 21/06/2012

 Version:
 8
 30/05/2015

Modifications with respect to the previous Material Safety Data Sheet:

The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.