

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

#### 1.1 Product identifier

		For professional users only.
Substance type:	:	Mixture
Use of the Substance/Mixture	:	Surface Disinfectant
Product code	:	116238E
Product name	:	Actichlor Plus

Product dilution information	:	0.1 % 1000 ppm

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

Identified uses	:	Surface disinfectant. Manual process
Recommended restrictions on use	:	Reserved for industrial and professional use.

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

· •	Company	
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## 1.4 Emergency telephone number

Emergency telephone number	:	+353 (0)1 276 3500
Poison Information Centre telephone number	:	For medical professionals only: +353 (0)1 837 9964 (8am-10pm)

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version	:	1.3

## Section: 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Product AS SOLD	
Eye irritation, Category 2	H319
Specific target organ toxicity - single exposure, Category 3,	H335
Respiratory system	
Acute aquatic toxicity, Category 1	H400
Chronic aquatic toxicity, Category 1	H410

### Product AT USE DILUTION

Not a hazardous substance or mixture.

### Classification (67/548/EEC, 1999/45/EC)

## **Product AS SOLD**

Xn; HARMFUL	R22
N; DANGEROUS FOR THE ENVIRONMENT	R31
	R36/37
	R50/53

### **Product AT USE DILUTION**

The product does not need to be labelled in accordance with EC directives or respective national laws.

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Product AS SOLD Hazard pictograms		¥_2
Signal Word	: Warning	
Hazard Statements	: H319 H335 H410	Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	: EUH031	Contact with acids liberates toxic gas.
Precautionary Statements	: <b>Prevention:</b> P273 P280e	Avoid release to the environment. Wear eye protection/face protection.

Hazardous components which must be listed on the label: troclosene sodium

## Product AT USE DILUTION

Not a hazardous substance or mixture.

## 2.3 Other hazards

#### Product AS SOLD

Mixing this product with acid or ammonia releases chlorine gas.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

## Product AS SOLD Hazardous components

	1			
Chemical Name	CAS-No.	Classification	Classification	Concentration:
	EC-No.	(67/548/EEC)	(REGULATION (EC) No	[%]
	REACH No.		1272/2008)	
troclosene sodium	2893-78-9	E-N-O-Xi-Xn;	Note G Oxidizing solids	>= 50 - <= 100
	220-767-7	R02-R22-R31-	Category 2; H272	
		R36/37-R08-	Acute toxicity Category 4;	
		R50/53	H302	
			Eye irritation Category 2;	
			H319	
			Specific target organ toxicity -	
			single exposure Category 3;	
			H335	
			Acute aquatic toxicity	
			Category 1; H400	
			Chronic aquatic toxicity	
			Category 1; H410	
adipic acid	124-04-9	Xi; R36	Eye irritation Category 2;	>= 20 - < 25
	204-673-3	,	H319	
Sodium	497-19-8	Xi; R36	Eye irritation Category 2;	>= 3 - < 5
Carbonate(soda)	207-838-8	,	H319	
	01-2119485498-19			
sodium	25155-30-0	Xn; R22-R41-	Acute toxicity Category 4;	>= 1 - < 2.5
dodecylbenzene	246-680-4	R38	H302	
sulfonate			Skin irritation Category 2;	
			H315	
			Serious eye damage	
			Category 1; H318	
	I	1	I	

## Product AT USE DILUTION

Remarks

: No hazardous ingredients

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section: 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

Product AS SOLD In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
In case of skin contact	:	Rinse with plenty of water.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur. Do NOT induce vomiting.
If inhaled	:	Remove to fresh air. Treat symptomatically. Get medical attention

if symptoms occur.

Product AT USE DILUTION In case of eye contact	: Rinse with plenty of water.
In case of skin contact	: Rinse with plenty of water.
If swallowed	: Rinse mouth. Get medical attention if symptoms occur.
If inhaled	: Get medical attention if symptoms occur.

## 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

## 4.3 Indication of immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

## Section: 5. FIREFIGHTING MEASURES

## **Product AS SOLD**

## 5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Exposure to decomposition products may be a hazard to he	alth.
Hazardous combustion products	<ul> <li>Decomposition products may include the following materials Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus</li> </ul>	;:

## 5.3 Advice for firefighters

Special protective equipment for firefighters	: Use personal protective equipment.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

## Section: 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

## Product AS SOLD

Actichlor Plus	
Advice for non-emergency personnel	: Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
<b>Product AT USE DILUTION</b> Advice for non-emergency personnel Advice for emergency responders	<ul> <li>Refer to protective measures listed in sections 7 and 8.</li> <li>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.</li> </ul>
6.2 Environmental precautions	
<b>Product AS SOLD</b> Environmental precautions	: Do not allow contact with soil, surface or ground water.
Product AT USE DILUTION	

## 6.3 Methods and materials for containment and cleaning up

Product AS SOLD Methods for cleaning up	:	Sweep up and shovel into suitable containers for disposal.
Product AT USE DILUTION Methods for cleaning up		Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

: No special environmental precautions required.

### 6.4 Reference to other sections

Environmental precautions

See Section 1 for emergency contact information. For personal protection see section 8. See Section 13 for additional waste treatment information.

## Section: 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

<b>Product AS SOLD</b> Advice on safe handling	: Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.
Hygiene measures	<ul> <li>Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.</li> </ul>
Product AT USE DILUTION Advice on safe handling	: Wash hands after handling. For personal protection see section 8.

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

ctichlor Plus	
Hygiene measures	: Wash hands before breaks and immediately after handling the product.
2 Conditions for safe storage	, including any incompatibilities
<b>Product AS SOLD</b> Requirements for storage areas and containers	: Keep out of reach of children. Keep container tightly closed. Stor in suitable labeled containers.
Storage temperature	: 0 °C to 50 °C
<b>Product AT USE DILUTION</b> Requirements for storage areas and containers	: Keep out of reach of children. Keep container tightly closed. Stor in suitable labeled containers.

# Product AS SOLD Specific use(s) : Surface disinfectant. Manual process

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

## Product AS SOLD Occupational Exposure Limits

CAS-No.	Components	Value type (Form of exposure)	Control parameters	Update	Basis
124-04-9	adipic acid	OELV - 8 hrs (TWA)	5 mg/m3	2007-08-17	IR_OEL

DNEL

Sodium Carbonate(soda)		End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 10 mg/m3
		End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 10 mg/m3

## 8.2 Exposure controls

## Product AS SOLD Appropriate engineering controls

Engineering measures	:	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
Individual protection measu	res	
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after

		handling.
Eye/face protection (EN 166)	:	Safety glasses with side-shields
Hand protection (EN 374)	:	No special protective equipment required.
Skin and body protection (EN 14605)	:	No special protective equipment required.
Respiratory protection (EN 143, 14387)	:	None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.
Product AT USE DILUTION Appropriate engineering con	ntro	bls
Engineering measures	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measur	res	
Hygiene measures	:	Wash hands before breaks and immediately after handling the product.
Eye/face protection (EN 166)	:	No special protective equipment required.
Hand protection (EN 374)	:	No special protective equipment required.
Skin and body protection (EN 14605)	:	No special protective equipment required.
Respiratory protection (EN 143, 14387)	:	None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.
Environmental exposure cor		als

## **Environmental exposure controls**

General advice

: Consider the provision of containment around storage vessels.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Appearance	: tablet	liquid
Colour	: white	natural colour
Odour	: slight chlorine	slight chlorine
рН	: 5.0 - 6.0	5.5 - 6.5

Flash point	: Not applicable.
Odour Threshold	: Not applicable and/or not determined for the mixture
Melting point/freezing point	: Not applicable and/or not determined for the mixture
Initial boiling point and boiling range	: Not applicable and/or not determined for the mixture
Evaporation rate	: Not applicable and/or not determined for the mixture
Flammability (solid, gas)	: Not applicable and/or not determined for the mixture
Upper explosion limit	: Not applicable and/or not determined for the mixture
Lower explosion limit	: Not applicable and/or not determined for the mixture
Vapour pressure	: Not applicable and/or not determined for the mixture
Relative vapour density	: Not applicable and/or not determined for the mixture
Relative density	: Not applicable and/or not determined for the mixture
Water solubility	: Not applicable and/or not determined for the mixture
Solubility in other solvents	: soluble
Partition coefficient: n- octanol/water	: Not applicable and/or not determined for the mixture
Auto-ignition temperature	: Not applicable and/or not determined for the mixture
Thermal decomposition	: Not applicable and/or not determined for the mixture
Viscosity, kinematic	: Not applicable and/or not determined for the mixture
Explosive properties	: Not applicable and/or not determined for the mixture
Oxidizing properties	: Not applicable and/or not determined for the mixture

## 9.2 Other information

Not applicable and/or not determined for the mixture

## Section: 10. STABILITY AND REACTIVITY

#### Product AS SOLD 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Mixing this product with acid or ammonia releases chlorine gas.

### 10.4 Conditions to avoid

None known.

## 10.5 Incompatible materials

None known.

## **10.6 Hazardous decomposition products**

Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

## Section: 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

#### **Product AS SOLD**

Information on likely routes of : Eye contact, Skin contact exposure

### Toxicity

Acute oral toxicity	:	Acute toxicity estimate : > 2,000 mg/kg
Acute inhalation toxicity	:	There is no data available for this product.
Acute dermal toxicity	:	There is no data available for this product.
Skin corrosion/irritation	:	There is no data available for this product.
Serious eye damage/eye irritation	:	There is no data available for this product.
Respiratory or skin sensitization	:	There is no data available for this product.
Carcinogenicity	:	There is no data available for this product.
Reproductive effects	:	There is no data available for this product.
Germ cell mutagenicity	:	There is no data available for this product.
Teratogenicity	:	There is no data available for this product.
STOT - single exposure	:	There is no data available for this product.
STOT - repeated exposure	:	There is no data available for this product.
Aspiration toxicity	:	There is no data available for this product.
Components		
Acute oral toxicity	:	troclosene sodium LD50 rat: 1,500 mg/kg
		adipic acid LD50 rat: 5,560 mg/kg
		Sodium Carbonate(soda) LD50 rat: 2,800 mg/kg

sodium dodecylbenzene sulfonate

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

tichlor Plus	
	LD50 rat: 1,086 mg/kg
Components	
Acute inhalation toxicity	: adipic acid 4 h LC50 rat: > 7.7 mg/l
Components	
Acute dermal toxicity	: troclosene sodium LD50 rabbit: > 10,000 mg/kg
	adipic acid LD50 rabbit: > 7,940 mg/kg
Potential Health Effects	
Product AS SOLD	: Causes serious eye irritation.
Eyes Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: May cause respiratory tract irritation. May cause nose, throat, ar
	lung irritation.
Chronic Exposure	: Health injuries are not known or expected under normal use.
Product AT USE DILUTION Eyes	<ul> <li>Health injuries are not known or expected under normal use.</li> </ul>
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.
Experience with human ex	posure
Product AS SOLD Eye contact	: Redness, Pain, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: Respiratory irritation, Cough
Product AT USE DILUTION Eye contact	N : No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

## Product AS SOLD **12.1 Ecotoxicity** Environmental Effects : Very toxic to aquatic life with long lasting effects. Product Toxicity to fish : no data available Toxicity to daphnia and other : no data available aquatic invertebrates Toxicity to algae : no data available Components Toxicity to fish : Sodium Carbonate(soda) 96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l sodium dodecylbenzene sulfonate 96 h LC50: 3.2 mg/l Components Toxicity to daphnia and other : Sodium Carbonate(soda) aquatic invertebrates 48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l Components Toxicity to algae : adipic acid 96 h EC50: 26.6 mg/l 12.2 Persistence and degradability Product Biodegradability : The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC Components Biodegradability : adipic acid Result: Readily biodegradable. Sodium Carbonate(soda) Result: Not applicable - inorganic sodium dodecylbenzene sulfonate Result: Readily biodegradable. 12.3 Bioaccumulative potential no data available 12.4 Mobility in soil no data available

## 12.5 Results of PBT and vPvB assessment

### Product

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

no data available

## Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste.Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### 13.1 Waste treatment methods

Product AS SOLD		
Product	:	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
European Waste Catalogue	:	200129* - detergents containing dangerous substances
Product AT USE DILUTION		
Product	:	Diluted product can be flushed to sanitary sewer.
Contaminated packaging	:	Dispose of in accordance with local, state, and federal regulations.

## Section: 14. TRANSPORT INFORMATION

## Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

## Land transport (ADR/ADN/RID)

14.1 UN number	: Not dangerous goods
14.2 UN proper shipping	: Not dangerous goods
name	
14.3 Transport hazard	: Not dangerous goods
class(es)	
14.4 Packing group	: Not dangerous goods
14.5 Environmental hazards	: Not dangerous goods
14.6 Special precautions for	: Not dangerous goods
user	

## Air transport (IATA)

14.1 UN number	: Not dangerous goods
14.2 UN proper shipping	: Not dangerous goods
name	
14.3 Transport hazard	: Not dangerous goods
class(es)	
14.4 Packing group	: Not dangerous goods
14.5 Environmental hazards	: Not dangerous goods
14.6 Special precautions for	: Not dangerous goods
user	

### Sea transport (IMDG/IMO)

14.1 UN number	: Not dangerous goods
14.2 UN proper shipping	: Not dangerous goods
name	
14.3 Transport hazard	: Not dangerous goods
class(es)	
14.4 Packing group	: Not dangerous goods
14.5 Environmental hazards	: Not dangerous goods
14.6 Special precautions for	: Not dangerous goods
user	
14.7 Transport in bulk	: Not dangerous goods
according to Annex II of	
MARPOL 73/78 and the IBC	
Code	

### **Product AT USE DILUTION**

Not intended for transport.

## Section: 15. REGULATORY INFORMATION

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

according to Detergents	:	less than 5 %: Anionic surfactants
Regulation EC 648/2004		Other constituents: Disinfectants

### **National Regulations**

### Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations: Safety, Health and Welfare at Work Act, 2005<br/>European Communities (Classification, Packaging, Labelling and<br/>Notification of Dangerous Preparations) Regulations 1995. (S.I.<br/>272 of 1995) as amended

### **15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

## Section: 16. OTHER INFORMATION

## Full text of R-Phrases

Risk of explosion by shock, friction, fire or other sources of ignition.

R08 R22 R31 R36 R36/37 R38 R41 R50/53	Contact with combustible material may cause fire. Harmful if swallowed. Contact with acids liberates toxic gas. Irritating to eyes. Irritating to eyes and respiratory system. Irritating to skin. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of H-Statements	
H272 H302 H315 H318 H319 H335 H400 H410	May intensify fire; oxidiser. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Full text of other abbrevi	ations

## Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## ANNEX: EXPOSURE SCENARIOS

### **DPD+ Substances:**

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.	
Ingestion	troclosene sodium	2893-78-9	220-767-7	
Inhalation	troclosene sodium	2893-78-9	220-767-7	
Dermal	sodium dodecylbenzene sulfonate	25155-30-0	246-680-4	
Eyes	troclosene sodium	2893-78-9	220-767-7	
aquatic environment	troclosene sodium	2893-78-9	220-767-7	

Physical properties DPD+ Substances:

Substance	Vapour pressure	Water solubility	Pow	Molar Mass
sodium dodecylbenzene sulfonate	< 0.0000001 hPa	0.1 g/l	2,089.3	348.48 g/mol

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

## www.ecetoc.org/tra

Short title of Exposure Scenario	:	Surface disinfectant. Manual process
Use descriptors		
Main User Groups	:	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sectors of end-use	:	<b>SU22:</b> Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process categories	:	<b>PROC10:</b> Roller application or brushing <b>PROC8a:</b> Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
Product categories	:	<b>PC35:</b> Washing and cleaning products (including solvent based products)
Environmental Release Categories	:	<b>ERC8a:</b> Wide dispersive indoor use of processing aids in open systems

Medguard Professional Healthcare

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