ALGOCLEAR 50



Section 1: Identification of the substance/mixture and of the company/undertaking

**Product Name: ALGOCLEAR** 

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

Use of substance / mixture: Biocide for surface treatment

1.3. Details of the supplier of the safety data sheet

Company name: CROPCARE Ltd

Willowgrove Delgany Co. Wicklow Ireland

Email: info@cropcare.ie

1.4. Emergency telephone number

Emergency tel: +353 1 2874485 - Day only.

**SECTION 2: Hazards identification** 

#### 2.2 Label elements

2.1 Classification of the substance		
REGULATION (EC) No 1272/2008		
Flammable liquids; Category 3	H226 Flammable liquid and vapour.	
Acute toxicity; Category 4 ; Oral	H302 Harmful if swallowed.	
Skin corrosion; Category 1B	H314 Causes severe skin burns and eye damage.	
Specific target organ toxicity - single exposure; Category 3	H336 May cause drowsiness or dizziness.	
Acute aquatic toxicity; Category 1	H400 Very toxic to aquatic life.	
Chronic aquatic toxicity; Category 1	H410 Very toxic to aquatic life with long lasting effects.	
67/548/EEC / 1999/45/EC		
Flammable.	Harmful if swallowed.	
Causes burns.	Very toxic to aquatic organisms.	
Vapours may cause drowsiness and dizziness.		

Labelling according to EC Directives

REGULATION (EC) No 1272/2008

Pictogram

Signal word: DANGER







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#### Hazard statements

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H336: May cause drowsiness or dizziness.

H410: Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P273: Avoid release to the environment.

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

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

#### R-phrase(s)

R10 : Flammable. R22 : Harmful if swallowed.

R34 : Causes burns. R50 : Very toxic to aquatic organisms.

R67: Vapours may cause drowsiness and dizziness.

#### S-phrase(s)

S16: Keep away from sources of ignition - No smoking.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 : After contact with skin, wash immediately with plenty of soap and water.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60: This material and its container must be disposed of as hazardous waste.

S61 : Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Special labelling of certain mixtures: Use biocides safely. Always read the label and product information before use.

**2.3 Other hazards** : No information available.

#### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

Substances / Mixtures : Mixture

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CAS-No	EC-No. / Registration number	Classification	Concentration
7173-51-5	230-525-2	Acute Tox.; 3; H301 Skin Corr.; 1B; H314 Eye Dam.; 1; H318 Aquatic Acute; 1; H400 Aquatic Chronic; 1; H410 C, N; R22, R34, R50	ca. 50 %
Propan-2-ol	•		
67-63-0	200-661-7 / 01-2119457558-25- XXXX	- Flam. Liq.; 2; H225 Eye Irrit.; 2; H319 STOT SE; 3; H336 F, Xi; R11, R36, R67	ca. 20 %

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

Inhalation: Move to fresh air. Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

Skin contact: After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately. Take off all contaminated clothing immediately.

Eye contact: Immediately flush eye(s) with plenty of water. Call a physician immediately.

Ingestion: Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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

Symptoms: No information available.

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

Treatment: No information available.

#### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media: Dry powder, Water spray, Foam.

# 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Heating or fire can release toxic gas.

# 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information: Use water spray to cool unopened containers.

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#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use respirator when performing operations involving potential exposure to vapour of the product.

#### 6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: 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).

#### 6.4 Reference to other sections

Additional advice: For personal protection see section 8.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion: Highly flammable. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Temperature class: T2

# 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and well-ventilated place.

#### 7.3 Specific end use(s)

Specific use(s): No information available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propan-2-ol	67-63-0	TWA	200 ppm / 500 mg/m3	SMAK
		STEL	400 ppm / 1 000 mg/m3	SMAK
Propan-2-ol	67-63-0	MAK	200 ppm / 500 mg/m3	DFG MAK
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Propan-2-ol	67-63-0	REL	400 ppm / 980 mg/m3	NIOSH/GUIDE
		STEL	500 ppm / 1 225 mg/m3	NIOSH/GUIDE

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#### 8.2 Exposure controls

#### Personal protective equipment

Respiratory protection: In the case of vapour formation use a respirator with an approved filter. Respirator with a vapour filter (EN 141) Respirator with ABEK filter.

Hand protection: Suitable material: butyl-rubber Break through time: > 480 min Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Suitable material: Nitrile rubber Break through time: > 30 min Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection: Tightly fitting safety goggles. Face-shield.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Rubber or plastic apron Rubber or plastic boots.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system.

#### **SECTION 9: Physical and chemical properties**

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

Physical state : liquid	Colour : light yellow
Odour : solvent-like	Odour Threshold: not determined
PH: 6,5 - 8 (10 g/l; 20 °C)	Melting point/range : < 0 °C
Solidification / Setting point : < -15 °C	Boiling point/boiling range: 82 °C Solvent
Flash point : closed cup : 29 °C Method: DIN 51755 Part 1	Evaporation rate : Note: not determined
Lower explosion limit: min. 2 %(V) Solvent	Upper explosion limit : max. 12,7 %(V) Solvent
Vapour pressure: 43 hPa Solvent	Relative vapour density: 2,1 Solvent
Density: 0,908 g/cm3	Water solubility: completely miscible
log Pow : Not applicable	Ignition temperature : 350 °C
Viscosity, dynamic : 25 mPa.s (20 °C)	Explosivity : Explosivity (EU-Regulations): No information available.
Viscosity, kinematic: 24,5 mm2/s (20 °C) Method: OECD Test Guideline 114	Oxidizing properties : Not applicable

9.2 Other information: no data available

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#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Stable under recommended storage conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Stable under normal conditions.

Thermal decomposition: > 400 °C

#### 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

Strong oxidizing agents, Reducing agents

#### 10.6 Hazardous decomposition products

Nitrogen oxides (NOx), Hydrogen chloride gas, Carbon oxides

#### 11: Toxicological information

#### 11.1 Information on toxicological effects

Additional advice: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

# The following toxicological data refer to: Didecyldimethylammonium chloride (CAS-No.: 7173-51-5)

#### Information on toxicological effects

Acute oral toxicity (LD50): 238 mg/kg Species: Rat Method: OECD Test Guideline 401

Acute dermal toxicity (LD50): 3 342 mg/kg Species: Rabbit

Skin irritation: irritating Species: Rabbit Exposure time: 3 min Method: OECD Test Guideline 404

Sensitisation: not sensitizing Species: Guinea pig Buehler Test Method: US-EPA

Genotoxicity in vitro: Negative Ames test, Salmonella typhimurium Method: OECD Test Guideline 471 negative Chromosome aberration test in vitro, Chinese hamster ovary cells negative Gene mutation, Chinese hamster ovary cells

Genotoxicity in vivo: negative Chromosome aberration test in vivo Application Route: Oral Species: Rat Method: OECD Test Guideline 475

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# **SECTION 12: Ecological information**

12.1 Toxicity	12.2 Persistence and degradability
Toxicity to fish: no data available	Biodegradability : no data available
12.3 Bioaccumulative potential	12.4 Mobility in soil
Bioaccumulation: no data available	Behaviour in environmental compartments : no data available
12.5 Results of PBT and vPvB assessment	12.6 Other adverse effects
Assessment: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).	Additional advice: Do not flush into surface water or sanitary sewer system. Discharge into the environment must be avoided.

The following ecotoxicological data refer to Didecyldimethylammonium chloride (CAS-No.: 7173-51-5)			
Toxicity			
Toxicity to fish (LC50)	0,19 mg/l Species: Pimephales promelas (fathead minnow) Acute toxicity Exposure time: 96 h Method: US-EPA	Toxicity to fish (NOEC)	0,032 mg/l Species: Danio rerio (zebra fish) Chronic toxicity Exposure time: 34 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (EC50)	0,062 mg/l Species: Daphnia magna (Water flea) Immobilization Exposure time: 48 h Method: EPA- FIFRA	(NOEC)	0,010 mg/l Species: Daphnia magna (Water flea) Reproduction Test Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to algae (ErC50)	0,026 mg/l Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Exposure time: 96 h Method: OECD Test Guideline 201	Toxicity to bacteria (EC50)	11 mg/l Species: activated sludge Respiration inhibition Exposure time: 3 h Method: OECD Test Guideline 209
M-Factor (Acute aquatic toxicity)	10	M-Factor (Chronic aquatic toxicity)	1
Persistence and degradability			
Biodegradability	Biodegradability Modified Sturm Test: 72 % Readily biodegradable Testing period: 28 d Method: OECD Test Guideline 301B		
	Die-Away Test: 93,3 % Testing period: 28 d		
	OECD Confirmatory Test: 91 % Testing period: 24 - 70 d Method: OECD Test Guideline 303 A		
	The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.		
Behaviour in environmental compartments	Mobile in soils Method: US-EPA		

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# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product: Dispose of in accordance with local regulations. Contact waste disposal services. Contaminated packaging: Dispose of as unused product. Do not burn, or use a cutting torch on, the empty drum.

# **SECTION 14: Transport information**

IATA	
14.1 UN number	2920
14.2 Proper shipping name	Corrosive liquid, flammable, n.o.s. (Didecyldimethylammonium chloride, Isopropanol)
14.3 Transport hazard class	8
14.4 Packing group	II
Labels	8 (3)
14.5 Environmental hazards	No '
IMDG	
14.1 UN number	2920
14.2 Proper shipping name	Corrosive liquid, flammable, n.o.s.
	(Didecyldimethylammonium chloride, Isopropanol)
14.3 Transport hazard class	8
14.4 Packing group	
Labels	8 (3)
EmS Number 1	F-E
EmS Number 2	S-C
14.5 Environmental hazards	Marine pollutant: yes
ADR	
14.1 UN number	2920
14.2 Proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
	(Didecyldimethylammonium chloride, Isopropanol)
14.3 Transport hazard class	8
14.4 Packing group	II
Classification Code	CF1
Hazard Identification Number	83
Labels	8 (3)
14.5 Environmental hazards	yes
RID	
14.1 UN number	2920
14.2 Proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
	(Didecyldimethylammonium chloride, Isopropanol)
14.3 Transport hazard class	8
14.4 Packing group	II
Classification Code	CF1
Hazard Identification Number	83
Labels	8 (3)
14.5 Environmental hazards	yes
DOT & TDG	
14.1 UN number	2920
14.2 Proper shipping name	Corrosive liquids, flammable, n.o.s.
	(Didecyldimethylammonium chloride, Isopropanol)
14.3 Transport hazard class	8
14.4 Packing group	II
Labels	8 (3)
Emergency Response Guidebook	
number (DOT)	132
14.5 Environmental hazards	no
14.6 Special precautions for user (TDG)	none
14.7 Transport in bulk according to Annex II of	not applicable
MARPOL 73/78 and the IBC Code (TDG)	

# SAFETY DATA SHEET ALGOCLEAR 50



Full text of H-Statements		
H225 Highly flammable liquid and vapour.	H301 Toxic if swallowed.	
H314 Causes severe skin burns and eye damage.	H318 Causes serious eye damage.	
H319 Causes serious eye irritation.	H336 May cause drowsiness or dizziness.	
H400 Very toxic to aquatic life.	H410 Very toxic to aquatic life with long lasting effects	
Full text of R-Phrases		
R11 Highly flammable.	R22 Harmful if swallowed.	
R34 Causes burns.	R36 Irritating to eyes.	
R50 Very toxic to aquatic organisms.	R67 Vapours may cause drowsiness and dizziness.	

#### **Section 15: Regulatory information**

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

#### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

#### **Section 16: Other infortmation**

Chemical safety assessment: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.