

according to Regulation (EC) No 1907/2006

#### Descocid-N

Revision date: 05.04.2017 Product code: ANTI022 Page 1 of 14

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Descocid-N

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

#### Use of the substance/mixture

Disinfectant for wipe disinfection

For professional use.

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

Company name: ANTISEPTICA Dr. Hans Joachim Molitor GmbH

Street: Carl-Friedrich-Gauß-Straße 7
Place: D-50259 Pulheim/Brauweiler

Telephone: ++49 (0)2234 /98466-0 Telefax: ++49 (0)2234 / 98466-11

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1.4. Emergency telephone Giftinformationszentrum NORD Universität Göttingen, giznord@giz-nord.de

<u>number:</u> Telephone: ++49 (0)551 / 1 92 40

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3 Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1

Specific target organ toxicity - repeated exposure: STOT RE 2 Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

# Regulation (EC) No. 1272/2008

## Hazard components for labelling

didecyldimethylammonium chloride

Quartenary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Formic acid benzoic acid Isopropanol

Signal word: Danger

Pictograms:











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# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

#### **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 2 of 14

#### **Hazard statements**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs (lung) through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

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

smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Ware protective gloves, protective clothing and eye protection.

P273 Avoid release to the environment.

P310 In case of accident: Call a doctor immediately.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

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

present and easy to do. Continue rinsing.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

#### 3.2. Mixtures



according to Regulation (EC) No 1907/2006

#### **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 3 of 14

## **Hazardous components**

CAS No	Chemical name			Quantity			
	EC No	Index No	REACH No				
	Classification according to Regulation (EC) No. 1272/2008 [CLP]						
68424-85-1	Quartenary ammonium compound	s, benzyl-C12-16-alkyldimethyl, chl	orides	10 - < 15 %			
	270-325-2						
	Acute Tox. 4, Skin Corr. 1B, Aquat H302 H314 H400 H410	c Acute 1 (M-Factor = 10), Aquatic	Chronic 1 (M-Factor = 1);				
67-63-0	propan-2-ol; isopropanol			5 - < 10 %			
	200-661-7	603-117-00-0	01-2119457558-25				
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336					
7173-51-5	didecyldimethylammonium chloride	5 - < 10 %					
	230-525-2	612-131-00-6					
	Acute Tox. 3, Skin Corr. 1B, Aquat H400 H411	c Acute 1 (M-Factor = 10), Aquatic	Chronic 2; H301 H314				
64-18-6	Formic acid .100%		1 - < 5 %				
	200-579-1		01-2119491174-37				
	Flam. Liq. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1A; H226 H331 H302 H314 EUH071						
69011-36-5	Isotridecanol, branched, ethoxylate	ed		1 - < 5 %			
	Eye Dam. 1, Aquatic Chronic 3; H3	318 H412					
65-85-0	benzoic acid						
	200-618-2	607-705-00-8					
	Skin Irrit. 2, Eye Dam. 1, STOT RE	1; H315 H318 H372					
147993-63-3	Alcohols, C12-14, ethers with poly		0.1 - < 1 %				
	639-700-1						
	Skin Irrit. 2, Aquatic Acute 1; H315 H400						

Full text of H and EUH statements: see section 16.

## Labelling for contents according to Regulation (EC) No 648/2004

disinfectants, < 5 % non-ionic surfactants, perfumes.

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

## 4.1. Description of first aid measures

#### **General information**

Call a physician immediately. If medical advice is needed, have product container or label at hand.

#### After inhalation

Provide fresh air.

#### After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water

## After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water. Call emergency telephone number.



according to Regulation (EC) No 1907/2006

#### Descocid-N

Revision date: 05.04.2017 Product code: ANTI022 Page 4 of 14

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

No information available.

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

Treatment of the patient is the same as for a chemical burn.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Extinguishing powder, alcohol resistant foam

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

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

In case of fire dangerous vapors / gases can be released

Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

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

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

Wear personal protection equipment. Provide adequate ventilation. Keep away from sources of ignition - No smoking.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3. Methods and material for containment and cleaning up

Wipe up with absorbent material (eg. cloth, fleece). Suitable material for taking up: Universal binder, Sand. Provide adequate ventilation.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

## 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. To prepare a dilution, always first fill in the water and then add the product.

# Further information on handling

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Change contaminated, saturated clothing. Avoid eye contact.

#### 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Vapours are heavier than air. Keep only in the original container in a cool, well-ventilated place. Avoid: frost. Keep out of the reach of children. Keep locked up and out of reach of children.

#### Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

# Further information on storage conditions

Protect against direct sunlight.

## 7.3. Specific end use(s)



according to Regulation (EC) No 1907/2006

## **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 5 of 14

We have no knowledge of specific end uses.

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

# 8.1. Control parameters

# **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-18-6	Formic acid	5	9.6		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

# **DNEL/DMEL values**

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
67-63-0	propan-2-ol; isopropanol						
Worker DNEL,	long-term	inhalation	systemic	500 mg/m³			
Worker DNEL,	long-term	dermal	systemic	888 mg/kg bw/day			
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³			
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day			
Consumer DN	EL, long-term	oral	systemic	26 mg/kg bw/day			
64-18-6	Formic acid .100%						
Worker DNEL,	long-term	inhalation	systemic	9.5 mg/m³			
Consumer DNEL, acute		inhalation	systemic	9.5 mg/m³			
Consumer DNEL, long-term		inhalation	systemic	3 mg/m³			
Worker DNEL,	acute	inhalation	systemic	19 mg/m³			

## PNEC values

CAS No	Substance			
Environmental	compartment	Value		
67-63-0	propan-2-ol; isopropanol			
Freshwater		140.9 mg/l		
Marine water		140.9 mg/l		
Freshwater se	diment	552 mg/l		
Marine sediment		552 mg/l		
Micro-organisms in sewage treatment plants (STP)		2251 mg/l		
Soil		28 mg/l		
64-18-6	Formic acid .100%			
Freshwater		2 mg/l		
Marine water		0.2 mg/l		
Freshwater se	Freshwater sediment			
Marine sediment		1.24 mg/kg		
Micro-organisms in sewage treatment plants (STP)		7.2 mg/l		
Soil		1.5 mg/kg		

# 8.2. Exposure controls



according to Regulation (EC) No 1907/2006

#### **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 6 of 14

#### Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes and skin.

#### Eye/face protection

When handling the concentrated product (for example, transferring) use tight fitting eye protection. (goggles)

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Chemical protective gloves must specifically chosen for each workplace depending on the concentration and amount of hazardous substances, temperature and contact time. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Recommendation: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

To prevent skin irritation in the professional field - regardless of actual contact with disinfectants - it is recommended to use: • a fast absorbing skin care cream in between if necessary. • a greasy cream after washing at the end of work or before breaks.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

Not required with good ventilation. In case of inadequate ventilation wear respiratory protection. ABEK

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

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

Physical state: liquid
Colour: green
Odour: characteristic

Test method

pH-Value (at 20 °C): approx. 1.6

Changes in the physical state

Initial boiling point and boiling range: 100 °C

Flash point: 34 °C DIN 51755

**Flammability** 

Solid: not applicable
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

**Auto-ignition temperature** 

Solid: not applicable Gas: not applicable Vapour pressure: not determined Density: approx. 1 g/cm3 Water solubility: easily soluble Partition coefficient: not applicable Vapour density: not determined not determined Evaporation rate:

## 9.2. Other information

#### ANTISEPTICA Dr. Hans Joachim Molitor GmbH

Print date: 07.01.2018

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

#### **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 7 of 14

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4. Conditions to avoid

Safe handling: see section 7

# 10.5. Incompatible materials

Incompatible materials: Oxidising agent, strong, Base, anionic surfactants

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects



according to Regulation (EC) No 1907/2006

#### **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 8 of 14

## **Acute toxicity**

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
68424-85-1	Quartenary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides								
	oral	LD50 mg/kg	344	Rat					
	dermal	LD50 mg/kg	3340	Rat					
67-63-0	propan-2-ol; isopropanol								
	oral	LD50 mg/kg	5840	Rat					
	dermal	LD50 mg/kg	13900	Rabbit					
	inhalative (4 h) vapour	LC50	37.5 mg/l	Rat		OECD 403			
7173-51-5	didecyldimethylammonium chloride								
	oral	LD50 mg/kg	238	Rat		OECD 410			
	dermal	LD50 mg/kg	3342	Rabbit					
64-18-6	Formic acid .100%								
	oral	LD50 mg/kg	730	Rat		OECD 401			
	inhalative (4 h) vapour	LC50	7.85 mg/l	Rat		BASF-Test			
	inhalative aerosol	ATE	0.5 mg/l						
69011-36-5	Isotridecanol, branched, ethoxylated								
	oral	LD50 mg/kg	>5000	Rat					
	dermal	LD50 mg/kg	>2000	Rat		OECD 402			
65-85-0	benzoic acid								
	oral	LD50 mg/kg	1700	Rat	GESTIS				
	dermal	LD50 mg/kg	> 10000	Rabbit	GESTIS				
147993-63-3	Alcohols, C12-14, ethers	with polyeth	ylene glycol	mono-butylether					
	oral	LD50 mg/kg	>2000	Rat					

#### Irritation and corrosivity

Didecyldimethylammoniumchloride:

In case of skin contact: OECD 404 Rabbit 3 min: Irritant

## Sensitising effects

Didecyldimethylammoniumchloride: Buehler Test US-EPA Guinea pig: negative.

# Carcinogenic/mutagenic/toxic effects for reproduction

Didecyldimethylammoniumchloride:

negative. OECD 471 (Ames test), Salmonella typhimurium

negative. Gene mutation, CHO-cells

negative. Chromosomal aberrations Test, CHO-cells

negative. Chromosomal aberrations Test oral Rat OECD 475



# ANTISEPTICA Dr. Hans Joachim Molitor GmbH

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 9 of 14

# **SECTION 12: Ecological information**

12.1. Toxicity



according to Regulation (EC) No 1907/2006

# **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 10 of 14

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
88424-85-1	Quartenary ammonium co	ompounds, b	enzyl-C12-1	6-alkyldii	methyl, chlorides		<u> </u>		
	Acute fish toxicity	LC50 mg/l	0.28	96 h	Pimephales promelas (fathead minnow)		US-EPA		
	Acute algae toxicity	ErC50 mg/l	0.049	72 h	Pseudokirchneriella subcapitata		OECD 201		
	Acute crustacea toxicity	EC50 mg/l	0.016	48 h	Daphnia magna (Big water flea)		OECD 202		
	Fish toxicity	NOEC mg/l	0.032	34 d	Pimephales promelas (fathead minnow)		EPA-FIFRA		
	Crustacea toxicity	NOEC mg/l	0.0042	21 d	Daphnia magna (Big water flea)		EPA-FIFRA		
	Acute bacteria toxicity	(7.75 mg/	1)	3 h	Activated sludge		OECD 209		
67-63-0	propan-2-ol; isopropanol								
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas (fathead minnow)				
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Selenastrum capricornutum				
	Acute crustacea toxicity	EC50 mg/l	9714	48 h	Daphnia magna (Big water flea)				
	Acute bacteria toxicity	(> 100 mg	g/l)						
7173-51-5	didecyldimethylammoniur	n chloride							
	Acute fish toxicity	LC50 mg/l	0.19	96 h	Pimephales promelas (fathead minnow)				
	Acute algae toxicity	ErC50 mg/l	0.026	96 h	Pseudokirchneriella subcapitata		OECD 201		
	Acute crustacea toxicity	EC50 mg/l	0.062	48 h	Daphnia magna (Big water flea)		OECD 211		
	Fish toxicity	NOEC mg/l	0.032	34 d	Danio rerio		OECD 210		
	Crustacea toxicity	NOEC mg/l	0.016	21 d	Daphnia magna (Big water flea)		OECD 211		
	Acute bacteria toxicity	(11 mg/l)		3 h	Activated sludge		OECD 209		
64-18-6	Formic acid .100%								
	Acute fish toxicity	LC50	130 mg/l	96 h	Brachydanio rerio (zebra-fish)		OECD 203		
	Acute algae toxicity	ErC50 mg/l	1240	72 h	Selenastrum capricornutum tus		OECD 201		
	Acute crustacea toxicity	EC50	365 mg/l	48 h	Daphnia magna (Big water flea)		OECD 203		
	Crustacea toxicity	NOEC mg/l	> 100	21 d	Daphnia magna (Big water flea)		OECD 211		
69011-36-5	Isotridecanol, branched, e	ethoxylated							
	Acute fish toxicity	LC50 mg/l	1 - 10	96 h	Oncorhynchus mykiss (Rainbow trout)				
	Acute algae toxicity	ErC50 mg/l	1 - 10	72 h	algae				
	Acute crustacea toxicity	EC50 mg/l	1 - 10	48 h	Daphnia magna (Big water flea)				
	Acute bacteria toxicity	(>1.000 n	ng/l)		Pseudomonas putida				

Page 11 of 14



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

#### **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022

	Acute crustacea toxicity	EC50	860 mg/l		Daphnia magna (Big water flea)	GESTIS	
147993-63-3	Alcohols, C12-14, ethers with polyethylene glycol mono-butylether						
	Acute fish toxicity	LC50	0.6 mg/l	96 h			DIN 38412 T.15
	Acute crustacea toxicity	EC50	1.2 mg/l	48 h			DIN 38412T.11

# 12.2. Persistence and degradability

CAS No	Chemical name								
	Method	Value	d	Source					
	Evaluation								
68424-85-1	Quartenary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides								
	OECD 303 A	>90%							
	OECD 302 A	>99%	7						
	OECD 301 B	95.5%	28						
	Readily biodegradable.								
67-63-0	propan-2-ol; isopropanol								
		53%	5						
	Readily biodegradable.								
7173-51-5	didecyldimethylammonium chloride								
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	72%	28						
	Readily biodegradable (according to OECD criteria).								
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	93.3	28						
	OECD 303/ EEC 92/69/V, C10	91%	70						
64-18-6	Formic acid .100%								
	OECD 301E	100%	9						
	Readily biodegradable.								
69011-36-5	Isotridecanol, branched, ethoxylated								
	OECD 301B, ISO 9439, 92/69/EEC C.4-C	>60%	28						
	Readily biodegradable.								

## 12.3. Bioaccumulative potential

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68424-85-1	Quartenary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	2.88
67-63-0	propan-2-ol; isopropanol	0.05
64-18-6	Formic acid .100%	-2.1

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6. Other adverse effects

hazardous to water (WGK 2)

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

# Waste disposal number of waste from residues/unused products



according to Regulation (EC) No 1907/2006

#### **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 12 of 14

070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease,

soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother

liquors; hazardous waste

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING: ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately

collected municipal packaging waste); plastic packaging

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

**14.1. UN number:** UN 2920

14.2. UN proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Quartenary ammonium

compounds, benzyl-C12-16-alkyldimethyl, chlorides, Isopropanol)

14.3. Transport hazard class(es):814.4. Packing group:II

Hazard label: 8+3



Classification code: CF1
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 83
Tunnel restriction code: D/E

Marine transport (IMDG)

**14.1. UN number:** UN 2920

**14.2. UN proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (benzalkonium chloride,

isopropanol)

14.3. Transport hazard class(es): 8
14.4. Packing group: | |

Hazard label: 8+3



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2920

14.2. UN proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (benzalkonium chloride,

isopropanol)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+3



according to Regulation (EC) No 1907/2006

#### **Descocid-N**

Revision date: 05.04.2017 Product code: ANTI022 Page 13 of 14



Limited quantity Passenger: 0.5 L
Passenger LQ: Y840
Excepted quantity: E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



#### **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: Formic acid .100%

2010/75/EU (VOC): 13.004 % 2004/42/EC (VOC): 13.004 %

## **Additional information**

To follow:

Regulation (EC) No. 648/2004 (Detergents regulation)

Classification according to Regulation (EC) No 1272/2008 [CLP]

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

#### **National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

## **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 1,15.

## Abbreviations and acronyms

The data contained in this safety data sheet is based on our current knowledge and experience and describe the product with regard to safety requirements. The information should not be regarded in any way as a description of the product's properties (product specification). Agreed characteristics nor the suitability of the product for a specific purpose can not be derived from the information in the SDS. We will advise you as to whether and under what circumstances, the preparation is suitable for a defined purpose. Proprietary rights and existing laws and regulations must be respected by the receiver of our product.

### Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.

Harmful if swallowed.

H302



according to Regulation (EC) No 1907/2006

Descocid-N						
Revision date: 05.04.2017	Product code: ANTI022	Page 14 of 14				
H314	Causes severe skin burns and eye damage.					
H315	Causes skin irritation.					
H318	Causes serious eye damage.					
H319	Causes serious eye irritation.					
H331	Toxic if inhaled.					
H336	May cause drowsiness or dizziness.					
H372	Causes damage to organs through prolonged or repeated exposure.					
H373	May cause damage to organs (lung) through prolonged or repeated exposure.					
H400	Very toxic to aquatic life.					
H410	Very toxic to aquatic life with long lasting effects.					
H411	Toxic to aquatic life with long lasting effects.					
H412	Harmful to aquatic life with long lasting effects.					
EUH071	Corrosive to the respiratory tract.					

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)