

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Biguacid Plus

Revision date: 01.03.2017

Product code: ANTI020

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Biguacid Plus

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
e-mail:	sdb@antiseptica.com		
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1.4. Emergency telephone number: Giftinformationszentrum NORD Universität Göttingen, giznord@giz-nord.de
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

Respiratory or skin sensitisation: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

polyhexamethylene biguanide hydrochloride

didecyldimethylammonium chloride

Signal word: Danger

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Pictograms:**Hazard statements**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P314	Get medical advice/attention if you feel unwell.
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.
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	Wear protective gloves/protective clothing/eye protection/face protection.

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**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7173-51-5	didecyldimethylammonium chloride			15 - < 20 %
	230-525-2	612-131-00-6		
	Acute Tox. 3, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 2; H301 H314 H400 H411			
61789-40-0	Cocamidopropyl Betaine			10 - < 15 %
	931-296-8			
	Eye Dam. 1, Aquatic Chronic 3; H318 H412			
71-23-8	propan-1-ol; n-propanol			1 - < 5 %
	200-746-9	603-003-00-0	01-2119486761-29	
	Flam. Liq. 2, Eye Dam. 1, STOT SE 3; H225 H318 H336			
27083-27-8	polyhexamethylene biguanide hydrochloride			1 - < 5 %
		616-207-00-X		
	Carc. 2, Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1B, STOT RE 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H351 H330 H302 H315 H318 H317 H372 H400 H410			
67-63-0	propan-2-ol; isopropanol			1 - < 5 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
69011-36-5	Isotridecanol, ethoxylated			1 - < 5 %
	931-138-8			
	Acute Tox. 4, Eye Dam. 1; H302 H318			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			1 - < 5 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			

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

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

disinfectants, 5 % - < 15 % amphoteric surfactants, < 5 % non-ionic surfactants, perfumes (Limonene).

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.

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

irritation of the mucous membranes, indisposition

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

none

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing powder, alcohol resistant foam
Water spray jet,
Carbon dioxide

5.2. Special hazards arising from the substance or mixture

In case of fire dangerous vapors / gases can be released Nitrogen oxides (NOx) Carbon monoxide Carbon dioxide (CO₂)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. 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**

Use personal protection equipment. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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. To prepare a dilution, always first fill in the water and then add the product.

Advice on protection against fire and explosion

Provide adequate ventilation. 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. Remove contaminated, saturated clothing immediately. Avoid contact with eyes.

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 from sunlight.

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7.3. Specific end use(s)

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/m ³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
71-23-8	Propan-1-ol	200	500		TWA (8 h)	WEL
		250	625		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
61789-40-0	Cocamidopropyl Betaine			
Consumer DNEL, long-term		oral	systemic	7.5 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	7.5 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	12.5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	44 mg/m³
71-23-8	propan-1-ol; n-propanol			
Worker DNEL, long-term		dermal	systemic	136 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	268 mg/m³
Worker DNEL, acute		inhalation	systemic	1723 mg/m³
Consumer DNEL, long-term		dermal	systemic	81 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	80 mg/m³
Consumer DNEL, acute		inhalation	systemic	1036 mg/m³
Consumer DNEL, long-term		oral	systemic	61 mg/kg bw/day
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 DNEL, long-term		oral	systemic	26 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
61789-40-0	Cocamidopropyl Betaine	
Freshwater		0.0135 mg/l
Marine water		0.00135 mg/l
Freshwater sediment		1 mg/kg
Marine sediment		0.1 mg/kg
Micro-organisms in sewage treatment plants (STP)		3000 mg/l
Soil		0.8 mg/kg
71-23-8	propan-1-ol; n-propanol	
Freshwater		10 mg/l
Marine water		1 mg/l
Freshwater sediment		22.8 mg/kg
Marine sediment		2.28 mg/kg
Micro-organisms in sewage treatment plants (STP)		96 mg/l
Soil		2.2 mg/kg
67-63-0	propan-2-ol; isopropanol	
Freshwater		140.9 mg/l
Marine water		140.9 mg/l
Freshwater sediment		552 mg/l
Marine sediment		552 mg/l
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/l

8.2. Exposure controls**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.

Recommendation:

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

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.

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.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	blue
Odour:	characteristic

pH-Value (at 20 °C):	approx. 5
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Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	100 °C
Flash point:	45 °C DIN 51755

Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable
Vapour pressure:	not determined
Density:	approx. 1 g/cm ³
Water solubility:	very soluble
Partition coefficient:	not applicable
Vapour density:	not determined
Evaporation rate:	not determined

Test method**9.2. Other information****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: aldehydes, anionic surfactants

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7173-51-5	didecyldimethylammonium chloride				
	oral	LD50 238 mg/kg	Rat		OECD 410
	dermal	LD50 3342 mg/kg	Rabbit		
61789-40-0	Cocamidopropyl Betaine				
	oral	LD50 2335 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		
71-23-8	propan-1-ol; n-propanol				
	oral	LD50 8000 mg/kg	Rat		
	dermal	LD50 4032 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50 >33.8 mg/l	Rat		
27083-27-8	polyhexamethylene biguanide hydrochloride				
	oral	ATE 500 mg/kg			
	inhalative vapour	ATE 0.5 mg/l			
	inhalative (4 h) aerosol	LC50 0.37 mg/l	Rat		
67-63-0	propan-2-ol; isopropanol				
	oral	LD50 5840 mg/kg	Rat		
	dermal	LD50 13900 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50 37.5 mg/l	Rat		OECD 403
69011-36-5	Isotridecanol, ethoxylated				
	oral	ATE 500 mg/kg			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 5660 mg/kg	Rat		
	dermal	LD50 4120 mg/kg	Rabbit		

Irritation and corrosivity

Didecyldimethylammoniumchloride:

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

Propan-1-ol:

In case of skin contact:

BASF Test: Not an irritant.

In case of eye contact: Didecyldimethylammoniumchloride:

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

Sensitising effects

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Propan-1-ol:

OECD 406 Guinea pig : negative.

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

SECTION 12: Ecological information**12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
7173-51-5	didecyldimethylammonium chloride					
	Acute fish toxicity	LC50 0.19 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 0.026 mg/l	96 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 0.062 mg/l	48 h	Daphnia magna (Big water flea)		OECD 211
	Fish toxicity	NOEC 0.032 mg/l	34 d	Danio rerio		OECD 210
	Crustacea toxicity	NOEC 0.016 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
	Acute bacteria toxicity	(11 mg/l)	3 h	Activated sludge		OECD 209
61789-40-0	Cocamidopropyl Betaine					
	Acute fish toxicity	LC50 1.1 mg/l	96 h			
	Acute algae toxicity	ErC50 2.4 mg/l				
	Acute crustacea toxicity	EC50 1.9 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC 0.135 mg/l				
71-23-8	propan-1-ol; n-propanol					
	Acute fish toxicity	LC50 4555 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 3644 mg/l	48 h	Daphnia magna (Big water flea)		
	Crustacea toxicity	NOEC >100 mg/l	21 d	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(>1000 mg/l)	3 h	Activated sludge		
27083-27-8	polyhexamethylene biguanide hydrochloride					
	Acute fish toxicity	LC50 0.026 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 0.0191 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 0.09 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
67-63-0	propan-2-ol; isopropanol					
	Acute fish toxicity	LC50 9640 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 9714 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(> 100 mg/l)				
69011-36-5	Isotridecanol, ethoxylated					
	Acute fish toxicity	LC50 1 - 10 mg/l	96 h	Cyprinus carpio (Common Carp)		
	Acute algae toxicity	ErC50 1 - 10 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 1 - 10 mg/l	48 h			
	Acute bacteria toxicity	(140 mg/l)		Activated sludge		

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112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute algae toxicity	ErC50 mg/l	> 100		Scenedesmus sp.	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
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	
61789-40-0	Cocamidopropyl Betaine			
	OECD 301 B	91,6 %		
71-23-8	propan-1-ol; n-propanol			
		75%	20	
	Readily biodegradable (according to OECD criteria).			
27083-27-8	polyhexamethylene biguanide hydrochloride			
	Not readily biodegradable (according to OECD criteria)			
67-63-0	propan-2-ol; isopropanol			
		53%	5	
	Readily biodegradable.			
69011-36-5	Isotridecanol, ethoxylated			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	>60%	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
61789-40-0	Cocamidopropyl Betaine	4.2
71-23-8	propan-1-ol; n-propanol	0.2
67-63-0	propan-2-ol; isopropanol	0.05
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	0,56 (25°C)

BCF

CAS No	Chemical name	BCF	Species	Source
61789-40-0	Cocamidopropyl Betaine	< 71		
71-23-8	propan-1-ol; n-propanol	0.88		

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

strongly hazardous to water (WGK 3)

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

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according to applicable legislation.

Waste disposal number of waste from residues/unused products

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

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. (didecyldimethylammonium chloride, Isopropanol)

14.3. Transport hazard class(es):

8

14.4. 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. (Didecyldimethylammonium chloride, Isopropanol)

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

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. (Didecyldimethylammonium chloride, Isopropanol)

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8+3

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Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y840	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		851
IATA-max. quantity - Passenger:		1 L
IATA-packing instructions - Cargo:		855
IATA-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 55: 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

2010/75/EU (VOC): 0.025 %

2004/42/EC (VOC): 1.028 %

Additional information

To follow:

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

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

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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): 3 - highly water contaminating

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,3,4,5,7,8,10,11,15.

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer by inhalation.

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H351	Suspected of causing cancer.
H372	Causes damage to organs (lung) through prolonged or repeated exposure.
H373	May cause damage to organs 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.

Further Information

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.

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