Safety Data Sheet as per regulation (EC) 1907/2006



Commercial Product Name: Pure Whirl DES Q15 and Whirl

Wannen DES Q15

Revision Date: 26.07.2021

Replaces version from: 09.03.2020

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1.8/en

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

1.1 Product identifier

Commercial Product Name Pure Whirl DES Q15 and Whirl Wannen DES Q15

registration number N-67461

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

1.3 Details of the supplier of the safety data sheet

Company designation Kemitron GmbH

An den Kiesgruben 14

D-73240 Wendlingen am Neckar, Germany

Telephone: +49 (0)7024/9506-0 FAX: +49 (0)7024/9506-30 Email: info@kemitron.de Internet: www.kemitron.de

Manufacturer Kemitron GmbH

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Responsible Department Telephone: +49-(0)7024 / 9506-0

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E-mail (competent person) info@kemitron.de

1.4 Emergency telephone number

Emergency telephone number National poisons information centre Goettingen, Germany

Telephone: +49 (0)551 / 19240

*SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.

1272/2008

Skin Corr. 1B; H314 Aguatic Acute 1; H400 Aguatic Chronic 1; H410

2.2 Label elements

Hazard pictogram





Signal word

Danger

Hazardous component(s) to be indicated on label

didecyldimethylammonium chloride , Quaternary ammonium

compounds, benzyl-C12-16-alkyldimethyl, chlorides

H-statement(s) H314: Causes severe skin burns and eye damage.

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

P-statement(s)

P101: If medical advice is needed, have product container or label at

hand.

P102: Keep out of reach of children.

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

P273: Avoid release to the environment.

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

protection.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce

vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

insina.

P310: Immediately call a POISON CENTER or doctor/physician.

P391: Collect spillage. P405: Store locked up.

P501: Dispose of contents/container to ...

2.3 Other hazards

Particular information pertaining specific risk for human / environment

According to regulation 1272/2008/EG Annex II the containers are to fitted woth a tactile warning of danger if offered or sold to the general public. For packaging containing not more than 125 ml, specifying the

following H-Statements H225, H319 and the corresponding

P-statements are not necessary on the label (according to regulation

1272/2008 Annex 1, 1.5.2.1).

*SECTION 3: Composition/information on ingredients

Chemical characterization Mixtures

Other data Description: Mixture of substances listed below with non-hazardous

admixtures.

*Hazardous ingredients

Ingredient	Nummern	Classification (EC) 1272/2008	Concentration
didecyldimethylammonium chloride	CAS No.: 7173-51-5 EC-No.: 230-525-2 Index-No.: 612-131-00-6 REACH No.: 01-2119945987-15-XXXX	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 (M=1) Aquatic Chronic 1; H410 (M=1)	10.0 - 25.0 % by weight
ethane-1,2-diol	CAS No.: 107-21-1 EC-No.: 203-473-3 Index-No.: 603-027-00-1 REACH No.: 01-2119456816-28-XXXX	Acute Tox. 4; H302 STOT RE 2; H373	2.5 - 10.0 % by weight
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS No.: 68424-85-1 EC-No.: 270-325-2 REACH No.: 01-2119983287-23-XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 (M=10) Aquatic Chronic 1; H410 (M=10)	2.5 - 10.0 % by weight

*SECTION 4: First aid measures

4.1 Description of first aid measures

General advice In all cases of doubt, or when symptoms persist, seek medical advice.

Remove contaminated clothing immediatley and dispose off safely. In case of accident or unwellness, seek medical advice immediately

(show directions for use or safety data sheet if possible).

If during the processing fumes / aerosols develop, and there is an

inhalation exposure:

If victim is at risk of losing consciousness, position and transport on

their side.

In case of skin contact

After contact with skin, wash immediately with: Wasser

Cover wound with sterile.

Consult physician immediately.

In case of eye contact Protect uninjured eye.

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.

If swallowed Rinse mouth immediately and drink plenty of water.

Split out the liquid.

Do not induce vomiting.

If swallowed, seek medical advice immediately and show this container

or label.

Immediate supply of fresh air. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Corrosion.

Intestinal cauterization.

Serious eye damage/eye irritation:

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention Symptomatic treatment

Event of pulmonary irritation treat initially with dexamethasone metered-

dose aerosol

*SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide (CO2), Extinguishing powder., Water fog. Suitable extinguishing media

Fight larger fires with water spray or alcohol resistant foam.

Extinguishing media which

must not be used for safety

reasons

none

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or Carbon dioxide.

preparation itself, its

combustion products, or

released gases

carbon monoxide

nitrogen oxides

Hydrogen chloride (HCI) Halogenated compounds.

5.3 Advice for firefighters

Special protective equipment

for firefighting

In case of fire: Wear self-contained breathing apparatus.

Full protection suit.

Additional information on

firefighting

Collect contaminated fire extinguishing water separately. This must not

be discharged into drains.

Fire residues and contaminated firefighting water must be disposed of in

accordance with official regulations.

*SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Wear personal protection equipment.

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Environmental precautions Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

In case of gas escape or of entry into waterways, soil or drains, inform

the responsible authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Send in suitable containers for recovery or disposal.

Provide adequate ventilation.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth,

acid- or universal binding agents).

6.4 Reference to other sections

Reference to other sections SECTION 7: Handling and storage

Personal protection equipment: see section 8

SECTION 13: Disposal considerations

*SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Ensure good ventilation / exhaustion at the workplace.

Keep container tightly closed in a cool, well-ventilated place.

Protect from heat and direct sunlight.

Avoid skin and eye contact.

Do not breathe vapour/aerosol.

Avoid the formation of aerosol.

Advice on protection against

fire and explosion

Attention of the general rules of the operational fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container Store at room temperature.

requirements Provide acid-resistant floor.

Prevent any seepage into the ground. Store only in unopened original container.

Hints on storage assembly Do not store together with: Keep away from food, drink and animal

feedingstuffs.

Storage specifications Protect from frost.

Keep container tightly closed.

Protect from heat and direct sunlight.

German storage class 8B: Non-combustible corrosive substances

*SECTION 8: Exposure controls/personal protection

8.1 Control parameters

didecyldimethylammonium chloride

Germany				
Value / ppm	Value / mg/m3	Issuing date	Source	
2	3	2010-08-04	Annex1 - 29. ATP - SV	

DNEL			
DNEL	Target group	Exposure route	Source

DNEL										
DNEL			Target gro	oup		Exposure route	:			Source
18,2 mg/m3			DNEL work			Einatmen				Annex1
, 6								- 29. ATP - SV		
8,6 mg/kg			DNEL worker		Skin				Annex1 - 29. ATP -	
PNEC		·								1
PNEC			Target g	ıroun						Source
0,002 mg/l				quatic, fresh	water					Annex1
0,002 mg/1			T NEO ux	qualio, ircorr	water					- 29. ATP - SV
0,0002 mg/l			PNEC ad	quatic, marir	ne water					Annex1 - 29. ATP - SV
ethane-1,2-c	loib									
Germany	l	, , ,			ь .			1		
Value / ppm		e / mg/m3		imit Value		<u> </u>		Issuing	date	
10	26		2(I)		*1) Europea *2)	ın Union. Skin res	sorptive	07/13		TRGS 900
						steam and aeroso	ols.			
Europe										
Long-term exposure va mg/m3	ılue/	Long-te exposur	erm re value/	Short-term exposure mg/m3		Short-term exposure value ppm		Issuing date	Sou	rce
52		20		104		40	Skin	2000/39		ECTIVE 9/161/EU
		•								
DNEL						<u></u>			1.	
DNEL			get group			Exposure route)			Source
106 mg/kg		DNE	L worker			skin contact.		C	Compan lata	
35 mg/m3		DNE	EL worker			Einatmen			Compan lata	
53 mg/kg		DNE	EL Consume	L Consumer		skin contact.				Compan lata
7 mg/m3		DNE	L Consume	Consumer Einatmen		Einatmen				Compan lata
PNEC										
PNEC		Target	t group						5	Source
			(Compan lata						
			Compan lata							
Quaternarv	ammo	onium co	ompound	s. benzvl-(C12-16-a	lkyldimethyl, ch	lorides			
DNEL			2	- , 	4	J 311				
DNEL		Ts	arget group	າ		Exposure rou	te		Ģ	Source
3,96 mg/m3			NEL worker			Einatmen			-	Compan
										lata .

DNEL			
DNEL	Target group	Exposure route	Source
5,7 mg/m3	DNEL worker	Skin	Company data
1,64 mg/m3	DNEL Consumer	Einatmen	Company data
3,4 mg/kg	DNEL Consumer	Skin	Company data
3,4 mg/kg	DNEL Consumer	oral.	Company data

PNEC				
PNEC	Target group	Source		
0,0009 mg/l	PNEC aquatic, freshwater	Company data		
0,00009 mg/l	PNEC aquatic, marine water	Company data		

8.2 Exposure controls

Respiratory protection By exceeding of the air value limit and unintented releasing of

substances:

Short term: filter apparatus

Filter: A (Identification colour: brown)

Hand protection Wear suitable gloves tested to EN374.

Suitable material The glove material has to be impermeable and resistant to the

product/the substance/the preparation.

Material thickness 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.

Break through time The exact break through time has to be requested from the protective

glove manufacturer and must be observed.

Evaluation Check the tightness of the gloves before each re-use.

Remarks The selection of the glove material must be carried out on the basis of

penetration times, permeation rates and degradation.

Note Due to missing test results, no recommendation can be given to the

glove material for the product / chemical mixture.

Note Preventive skin protection, it is recommended to use skin care products.

Normally it is not necessary for end users. If direct, longer contact with

the concentrated or diluted product can not be avoided, it is

recommended to wear gloves (EN 374).

Suitable material Neoprene.

Note The choice of a suitable glove is not just a question of the material:

other quality factors that differ from manufacturer to manufacturer must

also be considered. As the product is a preparation of several

substances, the resistance of the glove material can not be calculated in

advance and has therefore to be checked prior to the application.

Suitable material NBR (Nitrile rubber).

Eye protection Wear closed protection glasses.

Full face shield if splashing of the product is possible.

Skin and body protection Wear protective gloves/protective clothing.

General protective and

The usual precautionary measures for contact with chemicals are to

hygiene measures

Keep away from food, drink and animal feeding stuffs.

Remove contaminated, saturated clothing.

When using do not eat or drink.

Make rinsing after contact with substance on the eye.

Wash hands before breaks and after work.

Avoid contact with skin and eyes.

Provide eye shower

By handling with larger quantities, provide emergency showers.

Other information (chapter 8.) The notes on protective equipment refer to the industrial use of larger

quantities.

*SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

100

Physical state liquid Colour blue

Odour characteristic

рΗ 2,5

> 20°C Temperature

PH 2,5

Boiling point [°C]

Pressure 1013 hPa

Flash point [°C] 110 Density [g/cm³] 0,98

> 20°C Temperature

9.2 Other information

Ignition temperature [°C] not applicable

*SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity No further relevant information available.

Thermal decomposition

Remarks Conditions to avoid: See section 7

Remarks No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions No hazardous decomposition products if stored and handled as

prescribed.

10.4 Conditions to avoid

Conditions to avoid No further relevant information available.

10.5 Incompatible materials

Materials to avoid oxidising substances

Concentrated alkalis.

10.6 Hazardous decomposition products

Hazardous decomposition

No hazardous decomposition products if stored and handled as

products

prescribed.

*SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral toxicity [mg/kg] 2352

Test criterion LC50:
Test species Rat.

Dermal toxicity [mg/kg]

Hazardous ingredients

ethane-1,2-diol					
Value	Test criterion	Test species	Source		
3500	LD50:	Mouse.	Company data		

Irritant effect on skin

Remarks Caustic effect on skin and mucous membranes

Irritant effect on eyes

Remarks strong caustic effect

Irritant effect on the respiratory No irritant effect.

tract

Sensitization

Remarks No sensitizing effect known

Carcinogenic effects

Remarks There are currently no indications of carcinogenic and teratogenic

effects or of effects toxic for reproduction.

9919

9522 9431.71

9919

9522 9431.71

Specific target organ toxicity (single exposure) [mg/kg]

Remarks No classification.

Specific target organ toxicity (repeated exposure) [mg/kg]

Remarks No classification.

Aspiration hazard No classification.

*SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]

Hazardous ingredients

didecyldimethylammonium chloride					
Value	Test criterion	Test species	Exposure duration	Source	
2,8	LC50:	Brachydanio rerio (zebra-fish)	96 h	SimChem	

ethane-1,2-diol					
Value	Test criterion	Test species	Exposure duration	Source	
72860	LC50:	Brachydanio rerio (zebra-fish)	96 h	Company data	

Quate	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides					
Value	Test criterion	•	Exposure duration	Source		
1	LC50:	Carassius auratus (Carassius auratus (goldfish)).	96	Company data		

Toxicity to daphnia [mg/l]

Hazardous ingredients

didecyldimethylammonium chloride				
Value	Test criterion	Test species	Exposure duration	Source
0,97	LC50:	Daphnia magna	48 h	SimChem

ethane-1,2-diol					
Value Test criterion Test species Exposure duration Source					
200	LC50:	Daphnia magna	48 h	Company data	

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides				
Value	Test criterion	Test species	Exposure duration	Source
0,1	EC50	Daphnia magna	48	Company data

Toxicity to algae [mg/l]

Hazardous ingredients

didecyldimethylammonium chloride				
Value	Test criterion	Test species	Exposure duration	Source
0,24	EC50	Desmodesmus subspicatus.	72 h	SimChem

ethane-1,2-diol						
Value	Value Test criterion Test species Exposure duration Source					
6500	EC50	Desmodesmus subspicatus.	72 h	Company data		

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides				
Value Test criterion Test species Exposure duration Source				Source
0,1	IC50:	Pseudokirchneriella subcapitata	72	Company data

NOEC (algae) [mg/l]

Hazardous ingredients

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides				
Value	Test criterion	Test species	Source	
0,01	NOEC	Pseudokirchneriella subcapitata	Company data	

12.2 Persistence and degradability

Elimination and distribution

mechanisms

Remarks No further relevant information available.

Elimination in purification plant There are no specify on the product itself

Biodegradability

Remarks No further relevant information available.

12.4 Mobility in soil

Distribution in the environment No further relevant information available.

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics There are no specify on the product itself

determination

12.6 Other adverse effects

Ecotoxicology Possible harmful effects due to pH shift.

Further information on ecology hazardous to water (WGK 2)

Classification according to VwVwS, Annex 4.

Do not allow to enter into ground-water, surface water or drains.

The surfactant contained in this preparation complies 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.

Do not release undiluted and unneutralized to the sewer.

*SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Do not dispose with household waste.

Do not empty into drains.

Disposal according to Technical Ordinance on Waste (TVA), the Ordinance on Movements of Waste (OMW) and the DETEC Ordinance

on Lists on the circulation of waste (LVA).

Waste Code European Waste Catalogue: 07 00 00 WASTES FROM ORGANIC

CHEMICAL PROCESSES; 07 06 00 wastes from the HZVA of fats, grease, soaps, detergents, disinfectants and cosmetics; 07 06 01

aqueous washing liquids and mother liquors

Uncleaned empty packaging Contaminated packages must be completely emptied and can be re-

used following proper cleaning.

Packagings that cannot be cleaned are to be disposed off in the same

manner as the product

Dispose of waste according to applicable legislation.

Suitable cleaning agents Water (with cleaning agent).

*SECTION 14: Transport information

	* Land transport ADR/RID	* Marine transport IMDG	* Air transport ICAO/IATA
Proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.		
14.1 UN-No	UN 1903	UN 1903	UN 1903
14.3 Transport hazard class(es)	8	8	8
14.4 Packaging group	II	II	II
14.2 Description of the goods	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldiemthylammoniumchlorid), ENVIRONMENTALLY HAZARDOUS	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, Quatemary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), MARINE POLLUTANT	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecylmethylammonium chloride)
UN proper shipping name		DISINFECTANT, LIQUID, CORROSIVE, N.O.S.	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Danger releasing substance	Didecyldiemthylammoniumchlorid	didecyldimethylammonium chloride, Quatemary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides	didecylmethylammonium chloride
Risk No.	80		
Category	E2		
Classification Code	C9		
Tunnel restriction code	E		

	* Land transport ADR/RID	* Marine transport IMDG	* Air transport ICAO/IATA
Labels		E2	E2
EmS		F-A,S-B	
Stowage category		Category B	
Remarks			Packing instructions: For Limited Quantities: Y840 (Max. Net Qty/Pkg: 0,5 I)Passenger and Cargo Aircraft: 851 (max. Net Qty/Pkg: 1 I)Cargo Aircraft only: 855 (Max Net Qty/Pkg: 30 I)

14.6 Special precautions for user

Precautions Warning: Corrosive substances

14.8 Additional information

Other information (chapter The product contains environmentally hazardous substances:

14.) Didecyldimethylammoniumchlorid, Quaternary ammonium compounds,

Benzyl-C12-16-alkyldimethyl-, Chloride

*SECTION 15: Regulatory information

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

VOC 0,00 GW% Switzerland

Water Hazard Class (Ger.) 2

15.2 Chemical safety assessment

Safety assessment A chemical safety assessment has not been carried out.

*SECTION 16: Other information

| Modifications since last | Modifications of the previous version are denoted with an asterisk (*).

version

Relevant H-phrases H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

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.

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Wording of the hazard classes	Acute Tox.: Acute toxicity Aquatic Acute: Hazardous to the aquatic environment STOT RE: Specific target organ toxicity - repeated exposure Flam. Liq.: Flammable liquid Aquatic Chronic: Hazardous to the aquatic environment	
Classification for mixtures and	Classification	Evaluation
used evaluation method	Skin Corr. 1B; H314	
according to regulation (EC)	Aquatic Acute 1; H400	
1272/2008 [CLP]	Aquatic Chronic 1; H410	
Department issuing safety data sheet	Kemitron GmbH An den Kiesgruben 14 73240 Wendlingen am Neckar, Germany Telephone: +49 (0)7024/9506-0 Telefax: +49 (0)7024/9506-30	
	This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.	