

SAFETY DATA SHEET S101 OCEAN FRESH DISINFECTANT CONCENTRATE

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

1.1. Product identifier

Product name : S101 Ocean Fresh Disinfectant Concentrate

UFI : 3WVP-11P5-8000-56P6

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

1.2.1. Relevant identified uses

Professional use.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of product safety information sheet

Supplier Orca Hygiene

Blackhouse Circle,

Blackhouse Industrial Estate, Peterhead, AB42 1BN +44 (0)1779 871945

technical@orcahygiene.com

Contact person For content of safety data sheet: technical@orcahygiene.com

Manufacturer Orca Hygiene

Blackhouse Circle,

Blackhouse Industrial Estate, Peterhead, AB42 1BN +44 (0)1779 871945

technical@orcahygiene.com

1.4. Emergency telephone number

Emergency telephone +44 (0)1779 871945

National emergency telephone For the emergency services - the ambulance, police and fire services - Tel: 999 /

number When you need medical advice or treatment but it is not an emergency - Tel: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

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

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :





GHS05

GHS0

Signal word (CLP) : Danger

Contains : BENZALKONIUM CHLORIDE, Isotridecanol ethoxylated (8-EO)

Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage.

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

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a doctor. P391 - Collect spillage.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZALKONIUM CHLORIDE	CAS-No.: 68424-85-1 EC-No.: 270-325-2	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Isotridecanol ethoxylated (8-EO)	CAS-No.: 9043-30-5 EC-No.: 931-785-6	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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

Issue date: 14/04/2022 Version: 1.0

S101 OCEAN FRESH DISINFECTANT

CONCENTRATE

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a doctor immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-

contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further

information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do

not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective

equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using

this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Disposable gloves. Wear suitable gloves tested to EN374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear, violet liquid.

Odour : Pleasant

Odour threshold : No data available

pH : 9.5 - 11

Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available Flash point : No data available : No data available Auto-ignition temperature : No data available Decomposition temperature : Not applicable Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 1.002

Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

BENZALKONIUM CHLORIDE (68424-85-1)	
LD50 oral rat	795 mg/kg
LD50 oral	1560 mg/kg

Skin corrosion/irritation : Causes serious eye damage.

pH: 9.5 - 11

Serious eye damage/irritation : Causes skin irritation.

pH: 9.5 - 11

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-

term (acute)

: Very toxic to aquatic life.

Hazardous to the aquatic environment, long-

: Toxic to aquatic life with long lasting effects.

term (chronic)

BENZALKONIUM CHLORIDE (68424-85-1)	
LC50 - Fish [1]	1.7 mg/l
EC50 - Crustacea [1]	0.03 mg/l

2.2. Persistence and degradability

BENZALKONIUM CHLORIDE (68424-85-1)	
Chemical oxygen demand (COD) 1130 g O ₂ /g substance	
Biodegradation	60 %

12.3. Bioaccumulative potential

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting

instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID	
14.1. UN number	14.1. UN number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082	
14.2. UN proper shippir	ng name				
ENVIRONMENTALLY	ENVIRONMENTALLY	Environmentally	ENVIRONMENTALLY	ENVIRONMENTALLY	
HAZARDOUS	HAZARDOUS	hazardous substance,	HAZARDOUS	HAZARDOUS	
SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,	liquid, n.o.s.	SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,	
N.O.S. (CONTAINS	N.O.S. (CONTAINS	(CONTAINS	N.O.S. (CONTAINS	N.O.S. (CONTAINS	
QUATERNARY	QUATERNARY	QUATERNARY	QUATERNARY	QUATERNARY	
AMMONIUM	AMMONIUM	AMMONIUM	AMMONIUM	AMMONIUM	
COMPOUNDS,	COMPOUNDS,	COMPOUNDS,	COMPOUNDS,	COMPOUNDS,	
BENZYL-C8-18-	BENZYL-C8-18-	BENZYL-C8-18-	BENZYL-C8-18-	BENZYL-C8-18-	
ALKYLDIMETHYL,	ALKYLDIMETHYL,	ALKYLDIMETHYL,	ALKYLDIMETHYL,	ALKYLDIMETHYL,	
CHLORIDES)	CHLORIDES)	CHLORIDES)	CHLORIDES)	CHLORIDES)	

Transport document de	Transport document description			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
ENVIRONMENTALLY	ENVIRONMENTALLY	Environmentally	ENVIRONMENTALLY	ENVIRONMENTALLY
HAZARDOUS	HAZARDOUS	hazardous substance,	HAZARDOUS	HAZARDOUS
SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,	liquid, n.o.s.	SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,
N.O.S. (CONTAINS	N.O.S. (CONTAINS	(CONTAINS	N.O.S. (CONTAINS	N.O.S. (CONTAINS
QUATERNARY	QUATERNARY	QUATERNARY	QUATERNARY	QUATERNARY
AMMONIUM	AMMONIUM	AMMONIUM	AMMONIUM	AMMONIUM
COMPOUNDS,	COMPOUNDS,	COMPOUNDS,	COMPOUNDS,	COMPOUNDS,
BENZYL-C8-18-	BENZYL-C8-18-	BENZYL-C8-18-	BENZYL-C8-18-	BENZYL-C8-18-
ALKYLDIMETHYL,	ALKYLDIMETHYL,	ALKYLDIMETHYL,	ALKYLDIMETHYL,	ALKYLDIMETHYL,
CHLORIDES), 9, III, (-)	CHLORIDES), 9, III,	CHLORIDES), 9, III	CHLORIDES), 9, III	CHLORIDES), 9, III
	MARINE POLLUTANT			
14.3. Transport hazard	class(es)			
9	9	9	9	9
	₩ <u>2</u>			
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment: Yes	environment: Yes	environment: Yes	environment: Yes	environment: Yes
	Marine pollutant: Yes			
No supplementary information	on available			

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5l Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1 Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T4

(ADR)

Portable tank and bulk container special : TP1, TP29

provisions (ADR)

Tank code (ADR) : LGBV Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.)

Orange plates

90 3082

Tunnel restriction code (ADR) EAC code : •3Z

8/11

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001

Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29

Tank special provisions (IMDG) : TP1, TP
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions : T4

(RID)

Portable tank and bulk container special : TP1, TP29

provisions (RID)

Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages : W12

(RID)

Special provisions for carriage - Loading, : CW13, CW31

unloading and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	

PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
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.	
Skin Corr. 1	Skin corrosion/irritation, Category 1	

Safety Data Sheet (SDS), EU