

Product: OROCLEAN® Hygienic Wash

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) Article 31, Annex II as amended

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: OROCLEAN® Hygienic Wash
UFI: 9200-UOCW-600G-QPF9
Substance type: Mixture
Use of the substance/mixture: Disinfectant

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

Identified uses: Hygienic handwash
Uses advised against: Do not use for purposes other than those prescribed.
Recommended restrictions on use: None.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Address: United Disinfectant Manufacturers AG
Dr. Grass-Strasse 12
9490 Vaduz
Liechtenstein
Telephone: +423 237 15 03
Email: info@udm.li
Website: www.udm.li

Downstream user/importer/distributor

Address: United Disinfectant Manufacturers AG
Dr. Grass-Strasse 12
9490 Vaduz
Liechtenstein
Telephone: +423 237 15 03
Email: info@udm.li
Website: www.udm.li

Person responsible for preparing the SDS

Lee Moi Wong | Research & Development | Chief Research Officer (CRO)
Telephone: +423 237 15 03
Email: info@udm.li

1.4 Emergency telephone number

Emergency telephone number: 145 / +41 (0)44 251 51 51

* Please check the above numbers regularly as they might be subject to change.

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The full text for all H-statements is displayed in section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms: None.
Signal word: No signal word according to Regulation (EC) 1272/2008.
Hazard statements: None.
Precautionary statements: None.
Supplemental information: Not applicable.

2.3 Other hazards

PBT or vPvB properties: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

See below.

3.2 Mixtures

Classification according to Regulation (EC) No 1272/2008

Substance name	Identification	Classification	SCL, M-factor, ATE	Concentration
N-Alkyl(C6-18)-N,N-dimethylamine-N-oxide	CAS no.: 61788-90-7 EC no.: 931-292-6 Index no.: No data available REACH no.: 01-2119490061-47-0000	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Eye Dam. 1, H318 Skin Irrit. 2, H315	No data available	>= 0.1 % - <= 0.5 %
2-Phenoxyethanol	CAS no.: 122-99-6 EC no.: 204-589-7 Index no.: 603-098-00-9 REACH no.: 01-2119488943-21-0000	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE (ingestion) = 1394 mg/kg bw (-)	>= 0.5 % - < 1 %
Didecyltrimethylammonium chloride	CAS no.: 7173-51-5 EC no.: 230-525-2 Index no.: 612-131-00-6 REACH no.: 01-2119945987-15-0000	Acute Tox. 3, H301 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Eye Dam. 1, H318 Skin Corr. 1B, H314	No data available.	>= 0.5 % - < 1 %

The full text for all H-statements is displayed in section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes: Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell

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After inhalation:	seek medical assistance. Show the safety data sheet and label to the physician. No hazards which require special first aid measures. If unconscious, place in recovery position and seek medical advice.
After contact with skin:	No hazards which require special first aid measures. In the case of skin irritation or allergic reactions see a physician.
After contact with eyes:	Flush eyes with water as a precaution. Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye. If eye irritation persists, consult a specialist.
After ingestion:	No hazards which require special first aid measures. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

4.2 Most important symptoms and effects, both acute and delayed

See section 11 for more detailed information on health effects and symptoms.

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. Alcohol-resistant foam. Dry chemical
Unsuitable extinguishing media:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:	In case of a fire toxic gases can be generated; do not inhale gases/smoke.
Hazardous combustion products:	Carbon oxides (COx)

5.3 Advice for firefighters

Special protective equipment for firefighters:	Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).
Additional information:	Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:	Use personal protective equipment (section 8). Ensure adequate ventilation. No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.
Advice for emergency responders:	Use personal protective equipment.

6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

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6.3 Methods and material for containment and 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.

6.4 Reference to other sections

See also sections 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General advice: No special precautions required.
 Instructions for protection against fire and explosion: Normal measures for preventive fire protection.
 Advice on general occupational hygiene: Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage room and containers: Keep container tightly closed. Keep in a well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight.
 Further information about storage conditions: No decomposition if stored and applied as directed.
 Stocking with different products: No special restrictions on storage with other products.

7.3 Specific end use(s)

See identified uses in section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological limit values

DNEL values

Substance name	Pattern of exposure	Route of exposure	Limit value
Glycerol CAS no.:56-81-5	Worker (long term, local effects)	Inhalation	56 mg/m ³
	Consumer (long term, systemic effects)	Oral	229 mg/kg
	Consumer (long term, local effects)	Inhalation	33 mg/m ³
2-Phenoxyethanol CAS no.:122-99-6	Worker (long term, local effects)	Inhalation	5.7 mg/m ³
	Worker (long term, systemic effects)	Inhalation	5.7 mg/m ³
	Consumer (long term, systemic effects)	Inhalation	2.41 mg/m ³
	Consumer (long term, local effects)	Inhalation	2.41 mg/m ³
	Worker (long term, systemic effects)	Dermal	20.83 mg/kg bw/day
	Consumer (long term, systemic effects)	Dermal	10.42 mg/kg bw/day
	Consumer (short term, systemic effects)	Oral	9.23 mg/kg bw/day
	Consumer (long term, systemic effects)	Oral	9.23 mg/kg bw/day

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Didecyldimethylammonium chloride CAS no.:7173-51-5	Worker (long term, systemic effects)	Inhalation	5.39 mg/m ³
	Worker (long term, systemic effects)	Dermal	1.55 mg/kg
N-Alkyl(C6-18)-N,N-dimethylamine-N-oxide CAS no.:61788-90-7	Worker (long term, systemic effects)	Inhalation	6.2 mg/m ³
	Worker (long term, systemic effects)	Dermal	11 mg/kg
	Consumer (long term, systemic effects)	Inhalation	1.53 mg/m ³
	Consumer (long term, systemic effects)	Dermal	5.5 mg/kg
	Consumer (long term, systemic effects)	Oral	0.44 mg/kg

PNEC values

Substance name	Route of exposure	Limit value
Glycerol CAS no.:56-81-5	Fresh water	0.885 mg/L
	Marine water	0.088 mg/L
	Intermittent use/release	8.85 mg/L
	Sediment (fresh water)	3.3 mg/kg
	Sediment (marine water)	0.33 mg/kg
	Sewage treatment plant Soil	1000 mg/L 0.141 mg/kg dw
2-Phenoxyethanol CAS no.:122-99-6	Fresh water	943 µg/L
	Marine water	94.3 µg/L
	Sewage treatment plant	24.8 mg/L
	Sediment (fresh water)	7.237 mg/kg dw
	Sediment (marine water)	0.724 mg/kg dw
	Soil	1.26 mg/kg dw
Didecyldimethylammonium chloride CAS no.:7173-51-5	Fresh water	0.002 mg/L
	Marine water	0.0002 mg/L
	Sediment (fresh water)	2.82 mg/kg dw
	Sediment (marine water)	0.28 mg/kg dw
	Sewage treatment plant	0.595 mg/L
	Soil	1.4 mg/kg dw
N-Alkyl(C6-18)-N,N-dimethylamine-N-oxide CAS no.:61788-90-7	Fresh water	0.034 mg/L
	Marine water	0.003 mg/L
	Sewage treatment plant	24 mg/L
	Sediment (fresh water)	5.24 mg/kg
	Sediment (marine water)	0.524 mg/kg
	Soil	1.02 mg/kg
	Oral	11.1 mg/kg

8.2 Exposure controls

Appropriate engineering controls

See section 7. No additional measures necessary.

Individual protection measures

Eye/face protection:	If splashes are likely to occur, wear: Safety glass with side-shields conforming to EN166
Hand protection:	Not required during normal use.
Body protection:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection:	No personal respiratory protective equipment normally required.
Thermal hazards:	No data available.
Hygiene measures:	Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Environmental exposure controls

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Observe the usual precautions for handling chemicals. Do not empty concentrate into drains. Avoid releasing the concentrate to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Form:	Clear, liquid
Colour:	Colourless
Odour:	Characteristic
Melting point:	No data available.
Freezing point:	No data available.
Boiling point or initial boiling point and boiling range:	No data available.
Flammability:	
Lower explosion limit:	No data available.
Upper explosion limit:	No data available.
Flash point:	> 100 °C
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
pH-value (undiluted product):	5.5 (Concentration: 1000 g/L)
pH-value (diluted product):	Not applicable (ready-to-use solution).
Kinematic viscosity:	No data available.
Solubility:	Completely miscible with water.
Partition coefficient n-octanol/water:	No data available.
Vapour pressure at 50 °C:	No data available.
Density:	1.01 g/cm ³
Relative density:	1.01
Relative vapour density at 20 °C:	No data available.

9.2 Other information

Oxidising properties:	No data available.
Explosive properties:	No data available.
Evaporation rate:	No data available.
Miscibility:	No data available.
Other information:	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

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10.3 Possibility of hazardous reactions

Stable under recommended storage conditions. No hazards to be specially mentioned.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong acids and strong bases. Oxidizing agents.

10.6 Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity

Mixture:	Acute toxicity estimate: > 2000 mg/kg; Method: Calculation method
Component:	No data available.

Skin corrosion/irritation

Mixture:	No data available.
Component:	No data available.

Serious eye damage/irritation

Mixture:	No data available.
Component:	No data available.

Respiratory or skin sensitization

Mixture:	No data available.
Component:	No data available.

Germ cell mutagenicity

Mixture:	No data available.
Component:	No data available.

Carcinogenicity

Mixture:	No data available.
Component:	No data available.

Reproductive toxicity

Mixture:	No data available.
Component:	No data available.

STOT-single exposure

Mixture:	No data available.
Component:	No data available.

STOT-repeated exposure

Mixture:	No data available.
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Component:	No data available.
Aspiration hazard	
Mixture:	No aspiration toxicity classification.
Component:	No data available.

11.2 Information on other hazards**Endocrine disrupting properties**

Mixture: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: No data available.

Other hazards

Mixture: No data available.

Component: No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

No data available.

12.3 Bioaccumulative potential

Mixture: No data available.

Component: No data available.

12.4 Mobility in soil

Mixture: No data available.

Component: No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

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13.1 Waste treatment methods

Disposal methods: Dispose of contents/container in accordance with local regulation. Contact waste disposal services.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/ADN/RID)

14.1 UN number

Not regulated as a dangerous good.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not regulated as a dangerous good. | Danger label: Not applicable. | LQ: Not applicable.

14.5 Environmental hazards

Environmental hazards: No

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes and variations in regional or country regulations.

Sea transport (IMDG/IMO)

14.1 UN number

Not regulated as a dangerous good.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not regulated as a dangerous good. | Danger label: Not applicable. | LQ: Not applicable.

14.5 Environmental hazards

Environmental hazards: No
Marine pollutant: No

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14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

Air transport (IATA)

14.1 UN number

Not regulated as a dangerous good.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not regulated as a dangerous good. | Danger label: Not applicable. | LQ: Not applicable.

14.5 Environmental hazards

Environmental hazards: No

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes and variations in regional or country regulations.

SECTION 15: REGULATORY INFORMATION

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substance: Not applicable. Water hazard class (Germany): WGK 2 obviously hazardous to water.

15.2 Chemical safety assessment

No data available.

SECTION 16: OTHER INFORMATION

Indication of changes

No data available.

Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

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ASTM - American Society for Testing and Materials
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
AwSV - Ordinance on facilities for handling substances that are hazardous to water
BOD - Biochemical Oxygen Demand
c.c. - Closed cup
CAS - Chemical Abstract Services
CESIO - European Committee of Organic Surfactants and their Intermediates
COD - Chemical Oxygen Demand
DMEL - Derived Minimum Effect Level
DNEL - Derived No Effect Level
EbC50 - Median concentration in terms of reduction of growth
EC - Effective concentration
EINECS - European Inventory of Existing Commercial Chemical Substances
EN - European Norm
ErC50 - Median concentration in terms of reduction of growth rate
GGVSEB - German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee - German ordinance for sea transportation of dangerous goods
GLP - Good Laboratory Practice
GMO - Genetic Modified Organism
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
ISO - International Organization For Standardization
LD/LC - Lethal dose/concentration
LOAEL - Lowest Observed Adverse Effect Level
LOEL - Lowest Observed Effect Level
LQ - Limited Quantity
M-Factor - Multiplying factor
NOAEL - No Observed Adverse Effect Level
NOEC - No Observed Effect Concentration
NOEL - No Observed Effect Level
o.c. - Open cup
OECD - Organisation for Economic Cooperation and Development
OEL - Occupational Exposure Limit
PBT - Persistent, bioaccumulative, toxic
PNEC - Predicted No Effect Concentration
REACH - REACH registration
RID - Convention concerning International Carriage by Rail
SVHC - Substances of Very High Concern
TA - Technical Instructions
TRGS - Technical Rules for Hazardous Substances
vPvB - Very persistent, very bioaccumulative
WGK - Water Hazard Class

Key literature references and sources for data

No data available.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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List of relevant phrases

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Training information

Comply with national laws regulating employee instruction.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.