

SAFETY DATA SHEET



Product name: UNITCLEAN
Revision Date: 2013-11-28
Document No.: M0172

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Print date: 2013-11-28
SDS-ID: US-EN/5.0

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

Product identifier

Product name: UNITCLEAN
Cat. No. 49900040
Container size: 1 l

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

Application: Cleaning agent.

Details of the supplier of the safety data sheet

Supplier: Struers A/S
Pederstrupvej 84
DK-2750 Ballerup
Tel:+45 44 600 800

Responsible for material safety data sheet authoring: Responsible for material safety data sheet authoring: DHI
safety data sheet authoring: Any questions to the contents of this material safety data sheet should be sent to:
Lisbeth.Mygind@struers.dk

Emergency telephone number

Emergency telephone: Infotrac:
1-800-535-5053
Struers US:
1-440-871-0071

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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

The product is classified: C;R34 Xn;R21/22 N;R50

Human health: Corrosive. Prolonged contact causes serious eye and tissue damage. Harmful in contact with skin and if swallowed. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.

Environment: Very toxic to aquatic organisms.

Label elements



Corrosive

Dangerous
for the
environment

Contains: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.
R50 Very toxic to aquatic organisms.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

The product contains:

30% and more: cationic surfactants

NFPA Rating: Health:3 Fire:0 Reactivity:0 Other:-

Other hazards

PBT/vPvB: Not relevant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: cationic surfactants and water.

67/548/EEC:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
50	68424-85-1	270-325-2	-	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	C;R34 Xn;R21/22 N;R50	

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GHS:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
50	68424-85-1	270-325-2	-	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Acute Tox. 4;H312 Acute Tox. 4;H302 Skin Corr. 1B;H314 Aquatic Acute 1;H400	

References: The full text for all R-phrases and hazard statements are displayed in section 16.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation: Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions. Place unconscious person on the side in the recovery position and ensure breathing.

Skin contact: Flush immediately with plenty of water and remove contaminated clothing. Call an ambulance, continue to rinse during transportation to hospital and bring these instructions.

Eye contact: Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital taking along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Not known.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Special hazards arising from the substance or mixture

Specific hazards: During fire, health hazardous gases may be formed.

Advice for firefighters

Protective equipment for fire-fighters: Use air-supplied respirator during fire fighting.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Look out! The product is corrosive.
Avoid inhalation of vapors and contact with skin and eyes.

Environmental precautions

Environmental precautions: Do not discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

Methods and material for containment and cleaning up

Spill Cleanup Methods: Dam and absorb spillage with sand, sawdust or other absorbent. Sweep up and place into an appropriate container.

Reference to other sections

References: For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid inhalation of vapors and contact with skin and eyes. Immediately change drenched clothing. Observe good chemical hygiene practices.

Technical measures: Work practice should minimize contact. Do not eat, drink or smoke when using the product.

Technical precautions: Provide easy access to water supply and eye wash facilities. Mechanical ventilation may be required.

Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: Keep away from food, drink and animal feeding stuffs.

Storage conditions: Store in tightly closed original container in a dry and cool place.

Specific end use(s)

Specific use(s): Not relevant.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit assigned.

Exposure controls

<u>Engineering measures:</u>	An eye wash bottle must be available at the work site. Provide adequate ventilation.
<u>Personal protection:</u>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<u>Respiratory equipment:</u>	In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Inhalation of aerosols: Use respiratory equipment with particle filter, type P.
<u>Hand protection:</u>	Wear protective gloves. Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Other types of gloves can be recommended by the glove supplier.
<u>Eye protection:</u>	Wear goggles/face shield.
<u>Skin protection:</u>	Wear apron or protective clothing in case of splashes.
<u>Hygiene measures:</u>	Wash hands after handling. When using do not eat, drink or smoke. Change contaminated clothing.
<u>Environmental Exposure Controls:</u>	Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<u>Appearance:</u>	yellowish liquid
<u>pH:</u>	7,2
<u>Boiling point:</u>	100°C
<u>Flash point:</u>	>100°C
<u>Relative density:</u>	0,97
<u>Solubility:</u>	Miscible with water.
<u>Other information</u>	
<u>Other data:</u>	Viscosity: <100 mPa.s VOC (Volatile Organic Substances): 0 g/l (calculated)

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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Reactivity: None known.

Chemical stability

Stability: Stable under normal temperature conditions.

Possibility of hazardous reactions

Hazardous Reactions: None known.

Conditions to avoid

Conditions/materials to avoid: Strong oxidizing substances. anionic surfactants

Incompatible materials

Incompatible materials: None known.

Hazardous decomposition products

Hazardous decomposition products: Hydrogen chloride (HCl). Nitrogen oxides (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhalation: Vapors are corrosive. After 24-36 hours, injured persons may develop serious shortness of breath and lung edema.

Skin contact: Corrosive. Prolonged contact causes serious tissue damage.

Eye contact: Corrosive. Immediate first aid is necessary. Risk of corneal damage.

Ingestion: Corrosive. Even small amounts may cause serious damage.

Specific effects: Carcinogenicity:
National Toxicology Program (NTP): No.
I.A.R.C. Monographs: No.
OSHA: No.

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity: Very toxic to aquatic organisms.
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides :
LC50 96 hours, fish, mg/l (Lepomis macrochirus): 0,515
EC50 48 hours, Daphnia, mg/l: 0,0058

Persistence and degradability

Degradability: >80 %. The product is expected to be easily biodegradable.

Bioaccumulative potential

Bioaccumulative potential: Will not bio-accumulate.

Mobility in soil

Mobility: No data available.

Results of PBT and vPvB assessment

PBT/vPvB: Not relevant.

Other adverse effects

Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 20 01 29

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SECTION 14: TRANSPORT INFORMATION

UN number

UN-No: 1760

UN proper shipping name

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds)

Additional IMDG information:

EmS: F-A, S-B

MFAG: 1

Segregation Group: Alkali

Transport hazard class(es)

Class: 8

Packing group

PG: III

Environmental hazards

Marine pollutant: Yes.

Environmentally Hazardous substance: Yes.

Special precautions for user

Special precautions: None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not relevant.

SECTION 15: REGULATORY INFORMATION

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

Special provisions: TSCA: Listed.
As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

National regulation: Europe/USA:
This Material Safety Data Sheet has been prepared according to the EU-regulation.

Chemical Safety Assessment

CSA status: Not relevant.

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SECTION 16: OTHER INFORMATION

For restrictions on use see section 15.

The following sections contain revisions or new statements: -
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Allan Vorup

Wording of H-statements:

R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R50	Very toxic to aquatic organisms.
R61	May cause harm to the unborn child.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.
www.dhigroup.com.