



#### **UNITOR USC**

#### Wilhelmsen Ships Service AS

Part Number: 607819 (12 x 1 liter)

Version No: 10.13

Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: 29/09/2023 Print Date: 09/11/2023 L.REACH.NOR.EN

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

#### 1.1. Product Identifier

Product name	UNITOR USC
Chemical Name	Not Applicable
Synonyms	Pr No: 53985
Chemical formula	Not Applicable
Other means of identification	607819 (12 x 1 liter), 607819

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

Product Category Consumer	PC35 Washing and cleaning products	
Sectors of Use	SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)	
Relevant identified uses	Cleaning agent for Ultrasonic Cleaners	
Uses advised against	No specific uses advised against are identified.	

#### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Wilhelmsen Ships Service AS	Wilhelmsen Ships Service AS* Central Warehouse	
Address	Strandveien 20 Lysaker 1366 Norway	Use our Outback portal to obtain our (M)SDSs in other languages and/or format For questions relating to our SDSs please use Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com Norway	Willem Barentszstraat 50 Rotterdam Netherlands
Telephone	+47 67 58 40 00	Not Available	+31 10 4877 777
Fax	Not Available	Not Available	Not Available
Website	http://www.wilhelmsen.com/	http://www.wilhelmsen.com	http://www.wilhelmsen.com
Email	wss.norway.cs@wilhelmsen.com	wss.global.sdsinfo@wilhelmsen.com	wss.rotterdam@wilhelmsen.com
Registered company name	Wilhelmsen Ships Service AS* Cen	tral Warehouse	
Address	Willem Barentszstraat 50 Rotterdam Netherlands		
Telephone	+31 10 4877 777		
Fax	Not Available		
Website	http://www.wilhelmsen.com		
Email	wss.rotterdam@wilhelmsen.com		

Version No: 10.13

Page 2 of 15

**UNITOR USC** 

Issue Date: 29/09/2023 Print Date: 09/11/2023

#### 1.4. Emergency telephone number

Association / Organisation	Giftinformasjonssentralen - 24 timer	24hrs - Chemwatch	Dutch nat. poison centre
Emergency telephone numbers	+47 22591300	+31-10-4877700	+ 31 88 7558561
Other emergency telephone numbers	+31-10-4877700	+31-10-4877700	+ 31 10 4877700

Association / Organisation	Dutch nat. poison centre	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	+ 31 30 274 88 88	+47 23 25 25 84
Other emergency telephone numbers	+ 31-10-4877700	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

#### **SECTION 2 Hazards identification**

#### 2.1. Classification of the substance or mixture

Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Not classified as Dangerous Goods for transport purposes.

Classification according to
regulation (EC) No
1272/2008 [CLP] and
amendments [1]

H318 - Serious Eye Damage/Eye Irritation Category 1

Legend:

1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

#### Hazard statement(s)

H318 Causes serious eye damage.

#### Supplementary statement(s)

Not Applicable

#### **CLP classification (additional)**

Not Applicable

#### Precautionary statement(s) Prevention

**P280** Wear protective gloves, protective clothing, eye protection and face protection.

#### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

#### 2.3. Other hazards

Part Number: 607819 (12 x 1 liter)

Version No: 10.13

Page 3 of 15 **UNITOR USC**  Issue Date: 29/09/2023 Print Date: 09/11/2023

Ingestion may produce health damage\*.

Cumulative effects may result following exposure\*.

diethylene glycol monobutyl ether

Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

#### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 497-19-8 2.207-838-8 3.011-005-00-2 4.Not Available	1-5	sodium carbonate	Serious Eye Damage/Eye Irritation Category 2; H319 [2]	Not Available	Not Available
1. 160875-66-1* 2.Not Available 3.Not Available 4.Not Available	5-10	Fatty alcohol ethoxylate	Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Oral) Category 4; H318, H302 [1]	Not Available	Not Available
1. 161074-93-7* 2.500-529-1 3.Not Available 4.Not Available	1-5	<u>Alkylqlucoside</u>	Serious Eye Damage/Eye Irritation Category 1; H318 [1]	Not Available	Not Available
1. 112-34-5 2.203-961-6 3.603-096-00-8 4.Not Available	1-5	diethylene glycol monobutyl ether	Serious Eye Damage/Eye Irritation Category 2; H319 [2]	Not Available	Not Available
Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from			Classification drawn fron		

C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

#### **SECTION 4 First aid measures**

#### 4.1 Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Number Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

Part Number: 607819 (12 x 1 liter)

Page 4 of 15 **UNITOR USC**  Issue Date: 29/09/2023 Print Date: 09/11/2023

See Section 11

Version No: 10.13

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

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

#### 5.2. Special hazards arising from the substrate or mixture

Fire	Incom	patibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### 5.3. Advice for firefighters

······································		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> </ul>	
Fire/Explosion Hazard	carbon dioxide (CO2) , other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.	

#### **SECTION 6 Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Major Spills	Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>	
Fire and explosion protection	See section 5	
Other information		

#### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container
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Page **5** of **15** 

Part Number: **607819 (12 x 1 liter)**Version No: **10.13** 

 Page 5 of 15
 Issue Date: 29/09/2023

 UNITOR USC
 Print Date: 09/11/2023

Storage incompatibility	Avoid reaction with oxidising agents
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available















- X Must not be stored together
- 0 May be stored together with specific preventions
- May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

#### 7.3. Specific end use(s)

See section 1.2

#### **SECTION 8 Exposure controls / personal protection**

#### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
sodium carbonate	Dermal 1.56 mg/kg bw/day (Systemic, Chronic) Inhalation 0.548 mg/m³ (Systemic, Chronic) Inhalation 2.5 mg/m³ (Local, Chronic) Inhalation 5 mg/m³ (Local, Acute) Dermal 0.556 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.51 mg/m³ (Systemic, Chronic) * Oral 55.6 µg/kg bw/day (Systemic, Chronic) * Inhalation 5 mg/m³ (Local, Chronic) *	Not Available
Dermal 24.5 mg/kg bw/day (Systemic, Chronic) Inhalation 8.64 mg/m³ (Systemic, Chronic) Inhalation 8.64 mg/m³ (Systemic, Chronic) Inhalation 67.5 mg/m³ (Local, Chronic) Inhalation 101.2 mg/m³ (Local, Acute) Dermal 8.75 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.52 mg/m³ (Systemic, Chronic) * Oral 0.875 mg/kg bw/day (Systemic, Chronic) *		1.1 mg/L (Water (Fresh)) 11 mg/L (Water - Intermittent release) 0.11 mg/L (Water (Marine)) 4.4 mg/kg sediment dw (Sediment (Fresh Water)) 0.44 mg/kg sediment dw (Sediment (Marine)) 0.32 mg/kg soil dw (Soil) 56 mg/kg food (Oral)

<sup>\*</sup> Values for General Population

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)	diethylene glycol monobutyl ether	2-(2-Butoxyethoxy) ethanol	10 ppm / 67.5 mg/m3	101.2 mg/m3 / 15 ppm	Not Available	Not Available
Norway regulations on action rvalues cand limit values physical and chemical factors in the work environment and infection risk groups for biological factors (Norwegian)	diethylene glycol monobutyl ether	2-2(butoksyetoksy)etanol	10 ppm / 68 mg/m3	Not Available	Not Available	E

#### **Emergency Limits**

Ingredient TEEL-1	TEEL-2	TEEL-3
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Page 6 of 15

Version No: 10.13

#### **UNITOR USC**

Issue Date: **29/09/2023**Print Date: **09/11/2023** 

Ingredient	TEEL-1	TEEL-2	TEEL-3
sodium carbonate	7.6 mg/m3	83 mg/m3	500 mg/m3
diethylene glycol monobutyl ether	30 ppm	33 ppm	200 ppm

Ingredient	Original IDLH	Revised IDLH
sodium carbonate	Not Available	Not Available
Fatty alcohol ethoxylate	Not Available	Not Available
Alkylglucoside	Not Available	Not Available
diethylene glycol monobutyl ether	Not Available	Not Available

#### **Occupational Exposure Banding**

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
sodium carbonate	E	≤ 0.01 mg/m³	
Fatty alcohol ethoxylate	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

#### **MATERIAL DATA**

For diethylene glycol monobutyl ether:

CEL TWA: 15.5 ppm, 100 mg/m3

(CEL = Chemwatch Exposure Limit)

In studies involving the inhalation toxicity of diethylene glycol monobutyl ether, exposure for 6 hours daily at 100 mg/m3 had no effect. This concentration is in the range of the saturated vapour concentration.

Local damage was produced following inhalation of concentrations higher than the saturated vapour concentrations, that is, during inhalation of the aerosol (350 mg/m3).

#### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

# 8.2.2. Individual protection measures, such as personal protective equipment









#### Eye and face protection

- ► Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

#### Skin protection

#### See Hand protection below

▶ Wear chemical protective gloves, e.g. PVC.

#### Hands/feet protection

• Wear safety footwear or safety gumboots, e.g. Rubber
The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

#### Body protection

See Other protection below

#### Other protection

- Overalls.
- P.V.C apron.
- ► Barrier cream.

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

#### "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

#### Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature

## Page 7 of 15 UNITOR USC

Issue Date: **29/09/2023**Print Date: **09/11/2023** 

#### **UNITOR USC**

Version No: 10.13

Material	СРІ
NATURAL RUBBER	A
NITRILE	A

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### 8.2.3. Environmental exposure controls

See section 12

#### **SECTION 9 Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid, clear, green, soluble in water		
Physical state	Liquid	Relative density (Water = 1)	1.025-1.040
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	<11.5	Decomposition temperature (°C)	Not Applicable
Melting point / freezing point (°C)	0	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	>100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	11
Vapour density (Air = 1)	Not Applicable	VOC g/L	3
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

Issue Date: **29/09/2023**Print Date: **09/11/2023** 

#### 9.2. Other information

Not Available

Version No: 10.13

#### **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

#### **SECTION 11 Toxicological information**

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

Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis.  The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.  Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.  Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.

	TOXICITY	IRRITATION
UNITOR USC	Not Available	Not Available
	TOXICITY	IRRITATION
	dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg/24h moderate
	Oral (Rat) LD50: 2800 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg/30s mild
sodium carbonate		Eye (rabbit): 50 mg SEVERE
		Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (rabbit): 500 mg/24h mild
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>

Part Number: 607819 (12 x 1 liter)

Page 9 of 15 Issue Date: 29/09/2023 Version No: 10.13 Print Date: 09/11/2023 **UNITOR USC** 

Fatty alcohol ethoxylate	TOXICITY	IRRITATION	
	Not Available	Not Available	
Alkylglucoside	TOXICITY	IRRITATION	
	Not Available	Not Available	
diethylene glycol monobutyl ether	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 4120 mg/kg <sup>[2]</sup>	Eye (rabbit): 20 mg/24h moderate	
	Oral (Rat) LD50: 5660 mg/kg <sup>[2]</sup>	Eye (rabbit): 5 mg - SEVERE	
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.     Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
	I Inless otherwise enecified data extracted from DTE	ECC Pagiator of Taxia Effort of chamical Cubatanaca	

## **SODIUM CARBONATE**

Fatty alcohol ethoxylate

for sodium carbonate:

Sodium carbonate has no or a low skin irritation potential but it is considered irritating to the eyes. Due to the alkaline properties an irritation of the respiratory tract is also possible. No valid animal data are available on repeated dose toxicity studies by oral, dermal, inhalation or by other routes for sodium

carbonate. A repeated dose inhalation study, which was not reported in sufficient detail, revealed local effects on the lungs which could be expected based on the alkaline nature of the compound. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

Human beings have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents, and other cleaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contact

#### with the skin or eyes. Studies of acute toxicity show that volumes well above a reasonable intake level would have to occur to produce any toxic response. Alcohol ethoxylates are according to CESIO (2000) classified as Irritant or Harmful depending on the number of EO-units:

EO < 5 gives Irritant (Xi) with R38 (Irritating to skin) and R41 (Risk of serious damage to eyes)

EO > 5-15 gives Harmful (Xn) with R22 (Harmful if swallowed) - R38/41

EO > 15-20 gives Harmful (Xn) with R22-41

>20 EO is not classified (CESIO 2000)

Oxo-AE, C13 EO10 and C13 EO15, are Irritating (Xi) with R36/38 (Irritating to eyes and skin) .

AE are not included in Annex 1 of the list of dangerous substances of the Council Directive 67/548/EEC

In general, alcohol ethoxylates (AE) are readily absorbed through the skin of guinea pigs and rats and through the gastrointestinal mucosa of rats. AE are quickly eliminated from the body through the urine, faeces, and expired air (CO2).Orally dosed AE was absorbed rapidly and extensively in rats, and more than 75% of the dose was absorbed. When applied to the skin of humans, the doses were absorbed slowly and incompletely (50% absorbed in 72 hours).

### Alkylglucoside

Alkyl glycosides (syn: alkyl polyglucosides, alkyl polyglycosides, APGs) are considered non-irritating to skin, but irritating to eyes at very high concentrations. A general classification of a 65% C8 alkyl glycoside solution according to the Substance Directive 67/548/EEC is Irritating (Xi) with the risk phrase R41 (Risk of serious damage to the eyes) or R36 (Irritating to the eyes) (Akzo Nobel 1998).

#### Acute toxicity:

In single dose dermal studies with caprylyl/capryl glucoside and C10-16 alkyl glucoside (both 50% a.i., n:1.6) in rabbits, the LD50 was greater than the 2000 mg/kg dose administered. In oral studies with the same test substances, none of the mice dosed with 2000 mg/kg caprylyl glucoside and none of the rats dosed with 5000 mg/kg C10-16 alkyl glucoside died during the study.

#### Ocular:

In system studies for ocular irritation, the ocular irritation potential of decyl, lauryl, C10-16 alkyl, and coco-glucosides was non to slightly irritating and of caprylyl/ capryl glucoside was highly irritating.

#### **DIETHYLENE GLYCOL** MONOBUTYL ETHER

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

For diethylene glycol monoalkyl ethers and their acetates:

This category includes diethylene glycol ethyl ether (DGEE), diethylene glycol propyl ether (DGPE) diethylene glycol butyl ether (DGBE) and diethylene glycol hexyl ether (DGHE) and their acetates.

Acute toxicity: There are adequate oral, inhalation and/or dermal toxicity studies on the category members. Oral LD50 values in rats for all category members are all > 3000 mg/kg bw, with values generally decreasing with increasing molecular weight. Four to eight hour acute inhalation toxicity studies were conducted for all category members except DGPE in rats at the highest vapour concentrations achievable.

#### **UNITOR USC & SODIUM** CARBONATE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the

Issue Date: **29/09/2023**Print Date: **09/11/2023** 

## Fatty alcohol ethoxylate & Alkylglucoside

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	•	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

**Legend:** ★ – Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

#### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 11.2.2. Other information

See Section 11.1

#### **SECTION 12 Ecological information**

#### 12.1. Toxicity

UNITOR USC	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available Not Available			Not Availab
	Endpoint	Test Duration (hr)	Species	Valu	ie	Sourc
	EC50	72h	Algae or other aquatic plants	>80	0mg/l	2
Pour contrarate	EC50	48h	Crustacea	156	.6-298.9mg/l	4
sodium carbonate	EC50	96h	Algae or other aquatic plants	242	mg/l	4
	NOEC(ECx)	48h	Fish	0.01	06mg/l	4
	LC50	96h	Fish	300	mg/l	4
Fatty alcohol ethoxylate	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species		Value	Source
Alkylglucoside	Not Available	Not Available	Not Available		Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic plants		1101mg/l	2
diethylene glycol monobutyl ether	EC50	48h	Crustacea	Crustacea >100mg/		1
	EC50	96h	Algae or other aquatic plants	Algae or other aquatic plants >100mg/		1
	LC50	96h	Fish		1300mg/l	2
	NOEC(ECx)	96h	Algae or other aquatic plants		>=100mg/l	1

#### DO NOT discharge into sewer or waterways.

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium carbonate	LOW	LOW

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Part Number: 607819 (12 x 1 liter) Version No: 10.13

Page 11 of 15 **UNITOR USC**  Issue Date: 29/09/2023 Print Date: 09/11/2023

Ingredient	Persistence: Water/Soil	Persistence: Air
diethylene glycol monobutyl ether	LOW	LOW

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
sodium carbonate	LOW (LogKOW = -0.4605)
diethylene glycol monobutyl ether	LOW (BCF = 0.46)

#### 12.4. Mobility in soil

Ingredient	Mobility
sodium carbonate	HIGH (KOC = 1)
diethylene glycol monobutyl ether	LOW (KOC = 10)

#### 12.5. Results of PBT and vPvB assessment

	Р	В	Т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?			No	
vPvB		No		

#### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

#### **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods

**Product / Packaging** 

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ► Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

Waste treatment options Not Available Sewage disposal options

Not Available

disposal

#### **SECTION 14 Transport information**

#### **Labels Required**

Marine Pollutant	NO

#### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable
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Page **12** of **15** 

UNITOR USC

Issue Date: **29/09/2023**Print Date: **09/11/2023** 

14.2.	. UN proper shipping name	Not Applicable			
14.3.	. Transport hazard	Class	Not Appli	cable	
	class(es)	Subsidiary Hazard Not Applicable			
14.4.	. Packing group	Not Applicable			
14.5.	. Environmental hazard	Not Applicable			
		Hazard identification (Kemler)		Not Applicable	
		Classification code		Not Applicable	
14.6.	. Special precautions	Hazard Label		Not Applicable	
fo	for user	Special provisions		Not Applicable	
		Limited quantity		Not Applicable	
		Tunnel Restriction C	ode	Not Applicable	

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

4.1. UN number	Not Applicable			
4.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class	Not Applicable		
I.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard Not Applicable			
ciass(es)	ERG Code Not Applicable			
.4. Packing group	Not Applicable	Not Applicable		
4.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions	Not Applicable		
	Cargo Only Maximum Qty / Pack	Not Applicable		
4.6. Special precautions for user	Passenger and Cargo Packing In	Not Applicable		
ioi usei	Passenger and Cargo Maximum	Passenger and Cargo Maximum Qty / Pack Not Applicable		
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Not Applicable				
Not Applicable				
IMDG Class	Not Applicable			
IMDG Subsidiary Ha	zard Not Applicable			
Not Applicable				
Not Applicable				
EMS Number	Not Applicable			
Special provisions Not Applicable				
Limited Quantities Not Applicable				
	Not Applicable  IMDG Class  IMDG Subsidiary Haz  Not Applicable  Not Applicable  EMS Number  Special provisions			

#### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable

Part Number: 607819 (12 x 1 liter) Issue Date: 29/09/2023 Version No: 10.13 Print Date: 09/11/2023 **UNITOR USC** 

14.3. Transport hazard class(es)	Not Applicable Not Applicable				
14.4. Packing group	Not Applicable	Not Applicable			
14.5. Environmental hazard	Not Applicable				
	Classification code	Not Applicable			
14.6. Special precautions for user	Special provisions  Limited quantity	Not Applicable  Not Applicable			
ioi usei	Equipment required	Not Applicable			
	Fire cones number	Not Applicable			

#### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium carbonate	Not Available
Fatty alcohol ethoxylate	Not Available
Alkylglucoside	Not Available
diethylene glycol monobutyl ether	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium carbonate	Not Available
Fatty alcohol ethoxylate	Not Available
Alkylglucoside	Not Available
diethylene glycol monobutyl ether	Not Available

#### **SECTION 15 Regulatory information**

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

#### sodium carbonate is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

#### Fatty alcohol ethoxylate is found on the following regulatory lists

Not Applicable

#### Alkylglucoside is found on the following regulatory lists

Europe EC Inventory

#### diethylene glycol monobutyl ether is found on the following regulatory lists

EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

sNorway regulations on action values and limit values for physical and chemical factors in the work environment and infection risk groups for biological fact (Norwegian)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC,

**UNITOR USC** 

Issue Date: **29/09/2023**Print Date: **09/11/2023** 

- 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

#### Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **National Inventory Status**

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	No (Alkylglucoside)			
Canada - DSL	No (Fatty alcohol ethoxylate; Alkylglucoside)			
Canada - NDSL	No (sodium carbonate; Fatty alcohol ethoxylate; diethylene glycol monobutyl ether)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	No (Fatty alcohol ethoxylate)			
Japan - ENCS	Yes			
Korea - KECI	No (Alkylglucoside)			
New Zealand - NZIoC	Yes			
Philippines - PICCS	No (Alkylglucoside)			
USA - TSCA	Yes			
Taiwan - TCSI	Yes			
Mexico - INSQ	No (Fatty alcohol ethoxylate; Alkylglucoside)			
Vietnam - NCI	Yes			
Russia - FBEPH	No (Fatty alcohol ethoxylate; Alkylglucoside)			
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.			

#### **SECTION 16 Other information**

Revision Date	29/09/2023
Initial Date	05/04/2018

#### CONTACT POINT

- For quotations contact your local Customer Services - http://wssdirectory.wilhelmsen.com/#/customerservices - - Responsible for safety data sheet Wilhelmsen Ships Service AS - Prepared by: Compliance Manager, - Email: Email: wss.global.sdsinfo@wilhelmsen.com - Telephone: Tel.: +47 67584000

#### Full text Risk and Hazard codes

H302	Harmful if swallowed.	
H319	Causes serious eye irritation.	

#### **SDS Version Summary**

Version	Date of Update	Sections Updated	
9.13	29/09/2023	Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire incompatibility), Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (Respirator), Handling and storage - Storage (storage incompatibility)	

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

Part Number: 607819 (12 x 1 liter) Page **15** of **15** Version No: 10.13

**UNITOR USC** 

Issue Date: 29/09/2023 Print Date: 09/11/2023

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Serious Eye Damage/Eye Irritation Category 1, H318	Expert judgement

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