

Product brands by Wilhelmsen



# ACC PLUS

# Wilhelmsen Ships Service AS

Issue Date: 23/09/2020 Part Number: 698704 Print Date: 31/01/2022 Version No: 10.12 Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) L.REACH.NOR.EN

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

#### 1.1. Product Identifier

Product name	ACC PLUS
Chemical Name	Not Applicable
Synonyms	Degreaser Product No: 52697 (Norway)
Chemical formula	Not Applicable
Other means of identification	698704

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

Chemical Product Category	PC35 Washing and cleaning products (including solventbased products)		
Sectors of Use	SU3 Industrial uses: Uses of substances as such or in preparations* at industrial sites		
Relevant identified uses	Cleaning agent		
Uses advised against	Not Applicable		

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

Registered company name	Wilhelmsen Ships Service AS	Outback (M)SDS portal: http://jr.chemwatch.net/outb/account /autologin?login=wilhelmsen	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	+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.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				

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# 1.4. Emergency telephone number

Association / Organisation	Giftinformasjonssentralen - 24 timer 24hrs - Chemtrec Dutch nat. poison centre					
Emergency telephone numbers	+47 22591300 +31-10-4877700 + 31 88 7558561					
Other emergency telephone numbers	+31-10-4877700 +1 800 424 9300 + 31 10 4877700					
Association / Organisation	Dutch nat. poison centre					
Association / Organisation	Dutch hat. poison centre					
Emergency telephone numbers	+ 31 30 274 88 88					
Other emergency telephone numbers	+ 31-10-4877700					

# **SECTION 2 Hazards identification**

# 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments <sup>[1]</sup>	H318 - Serious Eye Damage/Eye Irritation Category 1, H302 - Acute Toxicity (Oral) Category 4, H304 - Aspiration Hazard Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

# 2.2. Label elements



Hazard statement(s)

H318	Causes serious eye damage.		
H302	2 Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		

# Supplementary statement(s)

EUH066	Repeated exposure may cause skin dryness or cracking.

# Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.		
P102	P102 Keep out of reach of children.		
P103	Read carefully and follow all instructions.		

# Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P264 Wash all exposed external body areas thoroughly after handling.			
P270	P270 Do not eat, drink or smoke when using this product.		

# Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.			
P331	Do NOT induce vomiting.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.			

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 P330
 Rinse mouth.

 Precautionary statement(s) Storage

 P405
 Store locked up.

 Precautionary statement(s) Disposal

 Precautionary statement(s) Disposal

 P501
 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# 2.3. Other hazards

2-(2-butoksyethoxy)ethanol 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.Not Available 2.918-481-9 3.Not Available 4.01-2119457273-39-0001	10-30	<u>Hydrocarbons, C10-C13, n-alkanes,</u> isoalkanes, cyclics, <2% aromatics	Aspiration Hazard Category 1; H304, EUH066 <sup>[1]</sup>	0	Not Available
1.112-34-5* 2.203-961-6 3.603-096-00-8 4.Not Available	5-10	2-(2-butoksyethoxy)ethanol *	Serious Eye Damage/Eye Irritation Category 2; H319 <sup>[1]</sup>	Not Available	Not Available
1.160875-66-1* 2.Not Available 3.Not Available 4.Not Available	10-30	fatty alcohol ethoxylates	Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Oral) Category 4; H318, H302 <sup>[1]</sup>	Not Available	Not Available
1.26468-86-0* 2.Not Available 3.Not Available 4.Not Available	1-5	2-ethylhexanol ethoxylate	Serious Eye Damage/Eye Irritation Category 1; H318 <sup>[1]</sup>	Not Available	Not Available
Legend:		by Chemwatch; 2. Classification drawn fr DELVs available; [e] Substance identified	<b>e</b> ( )		assification drawn from

# **SECTION 4 First aid measures**

### 4.1. Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>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.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
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>

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	<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> </ul>
	Observe the patient carefully.
	Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
Ingestion	Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
	Seek medical advice.
	Avoid giving milk or oils.
	Avoid giving alcohol.
	If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

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

See Section 11

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

#### BASIC TREATMENT

- \_\_\_\_\_
- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

#### BRONSTEIN, A.C. and CURRANCE, P.L

#### EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

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

Fire Incompatibility	None known.	
5.3. Advice for firefighters	S	
	Alert Fire Brigade and tell them location and nature of hazard.	
	Wear full body protective clothing with breathing apparatus.	
Fire Fighting	Prevent, by any means available, spillage from entering drains or water course.	

- Use water delivered as a fine spray to control fire and cool adjacent area.
  - Avoid spraying water onto liquid pools.

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	<ul> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit irritating/ toxic fumes.</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>

# **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>Remove all ignition sources.</li> <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> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> </ul>

### 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

	Avoid all personal contact, including inhalation.	
	Wear protective clothing when risk of exposure occurs.	
	► Use in a well-ventilated area.	
Safe handling	Prevent concentration in hollows and sumps.	
Gale handling	DO NOT enter confined spaces until atmosphere has been checked.	
	Avoid smoking, naked lights or ignition sources.	
	Avoid contact with incompatible materials.	
	DO NOT allow clothing wet with material to stay in contact with skin	
Fire and explosion protection	See section 5	
	Store in original containers.	
	Keep containers securely sealed.	
	No smoking, naked lights or ignition sources.	
Other information	Store in a cool, dry, well-ventilated area.	
	Store away from incompatible materials and foodstuff containers.	
	Protect containers against physical damage and check regularly for leaks.	
	• Observe manufacturer's storage and handling recommendations contained within this SDS.	

# 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
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Storage incompatibility None known



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
2-(2-butoksyethoxy)ethanol	Dermal 83 mg/kg bw/day (Systemic, Chronic) Inhalation 67.5 mg/m <sup>3</sup> (Systemic, Chronic) Inhalation 67.5 mg/m <sup>3</sup> (Local, Chronic) Inhalation 101.2 mg/m <sup>3</sup> (Local, Acute) Dermal 50 mg/kg bw/day (Systemic, Chronic) * Inhalation 40.5 mg/m <sup>3</sup> (Systemic, Chronic) * Oral 5 mg/kg bw/day (Systemic, Chronic) * Inhalation 40.5 mg/m <sup>3</sup> (Local, Chronic) * Inhalation 60.7 mg/m <sup>3</sup> (Local, Acute) *	<ul> <li>1.1 mg/L (Water (Fresh))</li> <li>0.11 mg/L (Water - Intermittent release)</li> <li>11 mg/L (Water (Marine))</li> <li>4.4 mg/kg sediment dw (Sediment (Fresh Water))</li> <li>0.44 mg/kg sediment dw (Sediment (Marine))</li> <li>0.32 mg/kg soil dw (Soil)</li> <li>200 mg/L (STP)</li> <li>56 mg/kg food (Oral)</li> </ul>

\* 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)	2-(2-butoksyethoxy)ethanol	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 and limif values physical and chemical factors in the work environment and infection risk groups for biological factors	2-(2-butoksyethoxy)ethanol	2-2(butoksyetoksy)etanol	10 ppm / 68 mg/m3	Not Available	Not Available	E

**Emergency Limits** 

Ingredient	TEEL-1	TEEL-2	TEEL-3
2-(2-butoksyethoxy)ethanol	30 ppm	33 ppm	200 ppm

Ingredient	Original IDLH	Revised IDLH
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Available	Not Available
2-(2-butoksyethoxy)ethanol	Not Available	Not Available
fatty alcohol ethoxylates	Not Available	Not Available
2-ethylhexanol ethoxylate	Not Available	Not Available

# **Occupational Exposure Banding**

Ingredient

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
fatty alcohol ethoxylates	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

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bioaccumulation and other endpoints combine to warrant such a limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA.

#### 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. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.
8.2.2. Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>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.</li> <li>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.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

### 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: ACC PLUS

Material	СРІ
BUTYL	A
NEOPRENE	A

VITON	A
NATURAL RUBBER	С
PVA	С

\* 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.

### 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	Light yellow liquid		
			I
Physical state	Liquid	Relative density (Water = 1)	0.925-0.935
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	>200
pH (as supplied)	9-10.5	Decomposition temperature	Not Applicable
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>61	Taste	Not Available
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	Combustible.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.6	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (Not Available%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

# 9.2. Other information

Not Available

# **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7
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
10.4. Conditions to avoid	See section 7

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10.5. Incompatible materials	See section 7
10.6. Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

# 11.1. Information on toxicological effects

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. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result. Signs and symptoms of chemical (aspiration) pneumonitis may include coughing, gasping, choking, burning of the mouth, difficult breathing, and bluish coloured skin (cyanosis).
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. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition 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	When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

ACC PLUS	TOXICITY	IRRITATION
	Not Available	Not Available
Hydrocarbons, C10-C13,	ΤΟΧΙΟΙΤΥ	IRRITATION
n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Available	Not Available
2-(2-butoksyethoxy)ethanol	ΤΟΧΙΟΙΤΥ	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
	ΤΟΧΙΟΙΤΥ	IRRITATION
fatty alcohol ethoxylates	Not Available	Not Available
	TOXICITY	IRRITATION
2-ethylhexanol ethoxylate	Not Available	Not Available
Legend:	<ol> <li>Value 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</li> </ol>	

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Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease,

Acute Toxicity 🗸	Carcinogenicity	×	
-	naterial may produce severe irritation to the eye causing pronounced inflam its may produce conjunctivitis.	mation. Repeated or prolonged exposure to	
2-ethylhexanol ethoxylateprod studi term Clini 	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. Moreover, no fatal case of poisoning with alcohol ethoxylates has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have shown that the use of these compounds is of low concern in terms of oral and dermal toxicity. Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as ulcerations of the stomach, pilo-erection, diarrhea, and lethargy. Similarly, slight to severe irritation of the skin or eye was generated when undiluted alcohol ethoxylates were applied to the skin and eyes of rabbits and rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 2007). 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 (Harmful if swallowed) - R38/41 EO > 15-20 gives Harmful (Xn) with R22 (Harmful 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 slowl		
2-(2-butoksyethoxy)ethanol value cons skin No s			

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

Data available to make classification

# **11.2.1. Endocrine Disruption Properties**

Not Available

# **SECTION 12 Ecological information**

# 12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
ACC PLUS	Not Available	Not Available	Not Available	Not Available	Not Available
Hydrocarbons, C10-C13,	Endpoint	Test Duration (hr)	Species	Value	Source
n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	96h	Algae or other aquatic plants	>=100mg/l	1
	EC50	72h	Algae or other aquatic plants	1101mg/l	2
2-(2-butoksyethoxy)ethanol	LC50	96h	Fish	1300mg/l	2
	EC50	48h	Crustacea	>100mg/l	1
	EC50	96h	Algae or other aquatic plants	>100mg/l	1
fatty alcohol ethoxylates	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
2-ethylhexanol ethoxylate	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	4. US EPA, Ec		e ECHA Registered Substances - Ecotoxicolo Data 5. ECETOC Aquatic Hazard Assessment contration Data 8. Vonder Data	• ·	

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

# 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2-(2-butoksyethoxy)ethanol	LOW	LOW

# 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
2-(2-butoksyethoxy)ethanol	LOW (BCF = 0.46)

# 12.4. Mobility in soil

Ingredient	Mobility
2-(2-butoksyethoxy)ethanol	LOW (KOC = 10)

# 12.5. Results of PBT and vPvB assessment

	Ρ	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?			No
vPvB			No

# **12.6. Endocrine Disruption Properties**

Not Available

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ACC PLUS

### 12.7. Other adverse effects

Not Available

# **SECTION 13 Disposal considerations**

### 13.1. Waste treatment methods

Product / Packaging disposal Waste treatment options Sewage disposal options	operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: * Reduction * Reuse * Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. * 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. * Where in doubt contact the responsible authority. * Recycle wherever possible or consult manufacturer for recycling options. * Consult State Land Waste Management Authority for disposal. * Bury residue in an authorised landfill. * Recycle containers if possible, or dispose of in an authorised landfill. Not Available Not Available
	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise: <ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>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.</li> </ul> </li> </ul>

### **SECTION 14 Transport information**

# Labels Required

Marine Pollutant NO

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

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	Class     Not Applicable       Subrisk     Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Hazard identification (Kemler)	Not Applicable		
	Classification code	Not Applicable		
	Hazard Label	Not Applicable		
	Special provisions	Not Applicable		
	Limited quantity	Not Applicable		
	Tunnel Restriction Code	Not Applicable		

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

14.1. UN number	Not Applicable

14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	Not Applicable Not Applicable Not Applicable		
14.4. Packing group	Not Applicable	Not Applicable		
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
	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 Subrisk	Not Applicable	
Not Applicable		
Not Applicable		
EMS Number	Not Applicable	
Special provisions	Not Applicable	
Limited Quantities	Not Applicable	
	Not Applicable         IMDG Class         IMDG Subrisk         IMDG Subrisk         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				
14.3. Transport hazard class(es)	Not Applicable Not Applicable				
14.4. Packing group	Not Applicable				
14.5. Environmental hazard	Not Applicable				
14.6. Special precautions for user	Classification code	Not Applicable			
	Special provisions	Not Applicable			
	Limited quantity	Not Applicable			
	Equipment required	Not Applicable			
	Fire cones number	Not Applicable			

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

Not Applicable

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

Product name	Group
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Available

Product name	Group
2-(2-butoksyethoxy)ethanol	Not Available
fatty alcohol ethoxylates	Not Available
2-ethylhexanol ethoxylate	Not Available

# 14.9. Transport in bulk in accordance with the ICG Code

Product name	Ship Type
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Available
2-(2-butoksyethoxy)ethanol	Not Available
fatty alcohol ethoxylates	Not Available
2-ethylhexanol ethoxylate	Not Available

### **SECTION 15 Regulatory information**

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

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics is found on the following regulatory lists

Not Applicable

#### 2-(2-butoksyethoxy)ethanol 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 dNorway regulations on action values and limit values for physical chemical factors in the work environment and infection risk groups for biological factors

#### fatty alcohol ethoxylates is found on the following regulatory lists

Not Applicable

#### 2-ethylhexanol ethoxylate is found on the following regulatory lists

Not Applicable

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

#### 15.2. Chemical safety assessment

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

### ECHA SUMMARY

CAS number Index No		EC	ECHA Dossier	
112-34-5*	603-096-00-8		Not Available	
Hazard Class and Category Code(s)	Pictograms Signal Word Code	(s)	Hazard Statement Code(s)	
Eye Irrit. 2	GHS07; Wng		H319	
Eye Irrit. 2; STOT SE 3; STOT SE 2	GHS07; Wng		H319; H411; H336; H314; H335	
	112-34-5* Hazard Class and Category Code(s) Eye Irrit. 2	112-34-5*     603-096-00-8       Hazard Class and Category Code(s)     Pictograms Signal Word Code       Eye Irrit. 2     GHS07; Wng	112-34-5*     603-096-00-8     Not       Hazard Class and Category Code(s)     Pictograms Signal Word Code(s)       Eye Irrit. 2     GHS07; Wng	

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No		ECHA Do	ssier
fatty alcohol ethoxylates	160875-66-1*	Not Available		Not Available	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Wor Code(s)	d	Hazard Statement Code(s)
1	Acute Tox. 4; Eye Dam. 1		GHS05; Dgr		H302; H318

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)		Hazard Statement Code(s)
2	Acute Tox. 4; Eye Dam. 1; Skin Irrit. 2; Aquatic Chronic 3		GHS05; Dgr		H302; H318; H315; H202; H412
Harmonisation Code $1 = The I$	most prevalent classification. Harmonisation	Code 2 = The m	oost severe classification.		
Ingredient	CAS number	Index No		ECHA Dossier	
2-ethylhexanol ethoxylate	26468-86-0*	Not Available		Not Available	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)		Hazard Statement Code(s)
1	Eye Dam. 1		GHS05; Dgr		H318
2	Eye Dam. 1; Skin Irrit. 2; Acute Tox. 4; Acute Tox. 4		GHS05; Dgr		H318; H315; H302; H332

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

# **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	No (fatty alcohol ethoxylates)	
Canada - NDSL	No (2-(2-butoksyethoxy)ethanol; fatty alcohol ethoxylates; 2-ethylhexanol ethoxylate)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (fatty alcohol ethoxylates; 2-ethylhexanol ethoxylate)	
Japan - ENCS	No (2-ethylhexanol ethoxylate)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	No (fatty alcohol ethoxylates)	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (fatty alcohol ethoxylates; 2-ethylhexanol ethoxylate)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (fatty alcohol ethoxylates; 2-ethylhexanol ethoxylate)	
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	23/09/2020
Initial Date	14/05/2018

# 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: Product HSE Manager, - Email: Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com - Telephone: Tel.: +31 10 4877775

#### Full text Risk and Hazard codes

H202	Explosive, severe projection hazard.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
9.12	23/09/2020	Ingredients, Physical Properties, Synonyms

### 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. Scale of use, frequency of use and current or available engineering controls must be considered.

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

- 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

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL 'No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors **BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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