

# Safety Data Sheet

## Alvask Offshore

Replaces date: 03/09/2019

Revision date: 20/09/2019

Version: 1.3.0

### SECTION 1: Identification of the substance/preparation and of the company/undertaking

#### 1.1. Product identifier

**Trade name:** Alvask Offshore

#### Article no

Article no	Description
11040	

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

**Recommended uses:** Cleaning agent

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

##### Supplier

**Company:** Besma International Chem A/S

**Address:** Friis Hansens Vej 6

**Zip code:** 7100

**City:** Vejle

**Country:** DENMARK

**E-mail:** besma@besma.dk

**Phone:** +45 7585 7433

**Homepage:** www.besma.dk

#### 1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24))

### SECTION 2: Hazards identification

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

**CLP-classification:** Skin Irrit. 2;H315 Eye Dam. 1;H318

**Most serious harmful effects:** Causes skin irritation. Causes serious eye damage.

#### 2.2. Label elements

##### Pictograms



**Signal word:** Danger

##### Contains

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**Substance:** Disodium metasilicate; Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride; Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)- omega-hydroxy

### H-phrases

H315 Causes skin irritation.  
H318 Causes serious eye damage.

### P-phrases

P280 Wear protective gloves/eye protection/face protection.  
P305+351+338 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.

### 2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.  
Alvask Offshore is registered and approved in accordance with OSPAR Recommendation 2010/3 for HOCNF in NEMS, Certificate No. 33052 (DK) and No. 33237 (Norway)

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
2-(2-butoxyethoxy) ethanol	112-34-5	203-961-6	01-2119475104-44	5 - 10%		Eye Irrit. 2;H319
Disodium metasilicate	10213-79-3	229-912-9	01-2119449811-37	1 - 5%		Met. Corr. 1;H290 Skin Corr. 1B;H314 STOT SE 3;H335
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy	160875-66-1	-		1 - 3%		Eye Dam. 1;H318
Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride	1554325-20-0	810-152-7		1 - 3%		Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318

Please see section 16 for the full text of H-phrases.

**Ingredient comments:** Pursuant to Regulation (EC) No. 648/2004 on detergents:  
less than 5%:  
cationic surfactants  
non-ionic surfactants  
phosphates

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:** Seek fresh air.

**Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

**Skin contact:** Remove contaminated clothing, watch and jewellery. Wash the skin with water. Seek medical advice in case of persistent discomfort.

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**Eye contact:** Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.

**General:** When obtaining medical advice, show the safety data sheet or label.

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

Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. Irritating to skin - may cause reddening.

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

Treat symptoms. No special immediate treatment required.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** The product is not directly flammable. Choose extinguishing agents based on the surrounding fire. Use water or water mist to cool non-ignited stock.

**Unsuitable extinguishing media:** Do not use water stream, as it may spread the fire.

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

The product is not directly flammable. Avoid inhalation of vapour and fumes - seek fresh air. The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide.

### 5.3. Advice for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Stop leak if this can be done without risk. Wear gloves. Wear safety goggles.

**For emergency responders:** In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

### 6.2. Environmental precautions

Do not discharge large quantities of concentrated spills and residue into drains.

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

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth. Rinse with water.

### 6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at

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the end of work.

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

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Storage temperature: 5 - 25 °C. Do not store with the following: Acids. Keep in tightly closed original packaging. Shelf life: minimum 5 years from opening the packaging.

### 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit

Substance name	Time period	ppm	mg/m <sup>3</sup>	fiber/cm <sup>3</sup>	Comments	Remarks
2-(2-butoxyethoxy) ethanol	-	10	67.5			

**Legal basis:** EH40/2005 Workplace exposure limits. Last amended August 2018.

#### PNEC

Disodium metasilicate, cas-no 10213-79-3					
Exposure	Value	Assessment Factor	Extrapolation Method	Note	
PNEC aqua (freshwater)	7,5 mg/l				
PNEC aqua (marine water)	1 mg/l				
PNEC aqua (intermittent releases)	7,5 mg/l				
PNEC STP (wastewater-treatment facilities)	1000 mg/l				

#### DNEL - workers

Disodium metasilicate, cas-no 10213-79-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	6,22 mg/m <sup>3</sup>				
Dermal DNEL (long-term exposure - systemic effects)	1,49 mg/kg				

#### DNEL - general population

Disodium metasilicate, cas-no 10213-79-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	1,55 mg/m <sup>3</sup>				

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Inhalation DNEL (long-term exposure - systemic effects)	0,74 mg/kg				
Oral DNEL (long- term exposure - systemic effects)	0,74 mg/kg				

### 8.2. Exposure controls

**Appropriate engineering controls:** Wear the personal protective equipment specified below.

**Personal protective equipment, eye/face protection:** Wear safety goggles. Eye protection must conform to EN 166.

**Personal protective equipment, skin protection:** Wear gloves. Type of material: Nitrile rubber. Gloves must conform to EN 374.

**Personal protective equipment, respiratory protection:** In case of risk of formation of spray mist, wear respiratory protective equipment with P2 filter. Respiratory protection must conform to one of the following standards: EN 136/140/145.

**Environmental exposure controls:** Ensure compliance with local regulations for emissions.

## SECTION 9: Physical and chemical properties

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

Parameter	Value/unit
State	Liquid
Colour	Colourless
Odour	Weak
Solubility	No data
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	< 11.5	
Melting point	~ 0 °C	
Freezing point	~ 0 °C	
Initial boiling point and boiling range	~ 100 °C	
Flash Point	No data	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	
Relative density	1.028	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	

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Odour threshold	No data	
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### 9.2 Other information

**Other Information:** None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with the following: Strong acids.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids.

### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

##### 2-(2-butoxyethoxy)ethanol, cas-no 112-34-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5660mg/kg			Supplier MSDS

##### Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		1152 - 1349mg/kg			

##### Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride, cas-no 1554325-20-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		300 - 2000mg/kg			

##### Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)- omega-hydroxy, cas-no 160875-66-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		2000 - 5000mg/kg			

Ingestion may cause discomfort. The product does not have to be classified. Test data are not available for all substances

#### Acute toxicity - dermal

##### 2-(2-butoxyethoxy)ethanol, cas-no 112-34-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source

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Rabbit	LD50		2700mg/kg			Supplier MSDS
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### Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000mg/kg			

### Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)- omega-hydroxy, cas-no 160875-66-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		2000 - 5000mg/kg			

The product does not have to be classified. Test data are not available for all substances

### Acute toxicity - inhalation

#### Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50		> 2.06mg/m <sup>3</sup>			

#### Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)- omega-hydroxy, cas-no 160875-66-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	LC50		> 20mg/l			

The product does not have to be classified. Test data are not available for all substances

### Skin corrosion/irritation

#### Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Corrosive		

Irritating to skin - may cause reddening.

### Serious eye damage/eye irritation

#### Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Corrosive		

Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.

### Respiratory sensitisation or skin sensitisation

#### Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride, cas-no 1554325-20-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				Non-sensitising		

#### Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)- omega-hydroxy, cas-no 160875-66-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				Non-sensitising		

The product does not have to be classified. Test data are not available for all substances

### Germ cell mutagenicity

#### Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				No mutagenic effects observed.		

#### Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride, cas-no 1554325-20-0

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				No mutagenic effects observed.	Ames test	

The product does not have to be classified. Test data are not available for all substances

**Carcinogenic properties:** The product does not have to be classified. Test data are not available.

**Reproductive toxicity:** The product does not have to be classified. Test data are not available.

**Single STOT exposure:** The product does not have to be classified. Test data are not available.

### Repeated STOT exposure

#### Disodium metasilicate, cas-no 10213-79-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat			227mg/kg		NOAEL	

#### Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)- omega-hydroxy, cas-no 160875-66-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	NOEL		250mg/kg			

The product does not have to be classified. Test data are not available for all substances

**Aspiration hazard:** The product does not have to be classified. Test data are not available.

**Other toxicological effects:** None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### 2-(2-butoxyethoxy)ethanol, cas-no 112-34-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Name of species not specified		48hLC50	1805mg/l			Supplier SDS
Crustacea	Daphnia magna		24hEC50	3200mg/l			Supplier SDS

#### Disodium metasilicate, cas-no 10213-79-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Brachydanio rerio		96hLC50	210mg/l			
Crustacea	Daphnia magna		96hEC50	1700mg/l			
Algae	Scenedesmus subspicatus		72hEC50	> 345.4mg/l			

#### Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride, cas-no 1554325-20-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish			96hLC50	10 - 100mg/l			
Crustacea	Daphnia sp.		48hEC50	1 - 10mg/l			
Algae			72hEC50	1 - 10mg/l			



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### **Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)- omega-hydroxy, cas-no 160875-66-1**

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Scenedesmus subspicatus		72hEC50	10 - 100mg/l			
Fish	Oncorhynchus mykiss		96hLC50	10 - 100mg/l			
Crustacea	Daphnia magna		48hEC50	1 - 10mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

### **12.2. Persistence and degradability**

#### **2-(2-butoxyethoxy)ethanol, cas-no 112-34-5**

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Readily biodegradable.		

#### **Disodium metasilicate, cas-no 10213-79-3**

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Readily biodegradable.		

#### **Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride, cas-no 1554325-20-0**

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Readily biodegradable.	OECD 301 D	

### **Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)- omega-hydroxy, cas-no 160875-66-1**

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Readily biodegradable.		

The product(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### **12.3. Bioaccumulative potential**

#### **2-(2-butoxyethoxy)ethanol, cas-no 112-34-5**

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	0.56			Supplier SDS

No bioaccumulation expected.

### **12.4. Mobility in soil**

Test data are not available.

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

No assessment has been made.

### **12.6. Other adverse effects**

None known.

## **SECTION 13: Disposal considerations**

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### 13.1. Waste treatment methods

Avoid discharge to drain or surface water. Contact the local authorities.

Absorbent/cloth contaminated with the product: EWC code: 15 02 03 Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02.

Empty, cleansed packaging should be disposed of for recycling.

**Category of waste:** EWC code: Depends on line of business and use, for instance 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

### SECTION 14: Transport information

<b>14.1. UN-No.:</b>	Not applicable.	<b>14.4. Packing group:</b>	Not applicable.
<b>14.2. UN proper shipping name:</b>	Not applicable.	<b>14.5. Environmental hazards:</b>	Not applicable.
<b>14.3. Transport hazard class(es):</b>	Not applicable.		

### 14.6. Special precautions for user

None.

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

Not applicable.

### SECTION 15: Regulatory information

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

**Special Provisions:** Covered by:  
Regulation (EC) of the European Parliament and of the Council on detergents.

**Authorisations / limitations:** Danish Product notification: 4171270

#### 15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119449811-37	Disodium metasilicate
01-2119475104-44	2-(2-butoxyethoxy)ethanol

### SECTION 16: Other information

#### Version history and indication of changes

Version	Revision date	Responsible	Changes
1.3.0	20/09/2019	Bureau Veritas HSE/ SRU	2, 16

**Abbreviations:**  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: Very Persistent and Very Bioaccumulative  
 STOT: Specific Target Organ Toxicity  
 DNEL: Derived No Effect Level  
 PNEC: Predicted No Effect Concentration

**Other Information:** This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as

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subsequently changed.

**Training advice:** A thorough knowledge of this safety data sheet should be a prerequisite condition.

**Classification method:** Calculation based on the hazards of the known components.

### List of relevant H-statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

**Document language:** GB