

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 6/9/2022 Revision date: 5/31/2024 Supersedes version of: 6/9/2022 Version: 1.02

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

### 1.1. Product identifier

Product form : Mixture

Product name : Fraser AeroWash

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Liquid Concentrate for Exterior Aircraft Cleaning

### 1.2.2. Uses advised against

No additional information available

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

Alexander Fraser Group 1 St. James Road, Brentwood Essex P.O. Box CM14 4L T +44 (0)20 8597 8781 nfo@yesstoreship.co.uk

### 1.4. Emergency telephone number

Emergency number : +44 (0)20 8597 8781 (9am to 5pm)

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

Causes eye irritation. Presents no particular risk to the environment.

# 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP)

Contains : Disodium metasilicate; C08-10 Alkyl glucoside ; Potassium hydroxide

: Danger

Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of water.



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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315 - Get immediate medical advice/attention.

P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

This mixture is not considered to be persistent, bioaccumulating and toxic (PBT)
This mixture is not considered to be persistent, bioaccumulating and toxic (PVB)
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium carbonate	CAS-No.: 584-08-7 EC-No.: 209-529-3	≥1-<3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Disodium metasilicate	CAS-No.: 6834-92-0 EC-No.: 229-912-9 EC Index-No.: 014-010-00-8 REACH-no: 01-2119449811- 37-XXXX	≥1-<3	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335
C08-10 Alkyl glucoside	CAS-No.: 68515-73-1 EC-No.: 500-220-1 REACH-no: 01-2119488530- 36-XXXX	≥1-<3	Eye Dam. 1, H318
Potassium hydroxide	CAS-No.: 1310-58-3 EC-No.: 215-181-3	< 1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general

: If you feel unwell, seek medical advice.



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First-aid measures after inhalation

: To our knowledge, the product does not present any particular risk, under normal conditions of use. Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

Wash skin with plenty of water.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : To our knowledge, the product does not present any particular risk, under normal conditions

Symptoms/effects after inhalation : May cause slight temporary irritation. Symptoms/effects after skin contact : May cause slight irritation to the skin.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : May cause irritation to the digestive tract.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : None known.

## 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

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

General measures : Avoid contact with skin and eyes. Wash immediately with plenty of water.

6.1.1. For non-emergency personnel

Protective equipment : No special requirement . Avoid contact with skin. Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

Measures in case of dust release : Not applicable (aqueous liquid).

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

**Emergency procedures** : Wash immediately with plenty of water.

### 6.2. Environmental precautions

This product does not present any particular risk for the environment.

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

For containment : Stop leak without risks if possible.

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

Other information : Small amount of unwanted product may be flushed with water to sewer.

#### 6.4. Reference to other sections

For further information refer to section 13.

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# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Ensure spraying away from persons.

Hygiene measures : Always wash hands after handling the product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place.

### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

Fraser AeroWash		
United Kingdom - Occupational Exposure Limits		
Remark Contains no substances with occupational work exposure limits.		
Potassium hydroxide (1310-58-3)		
United Kingdom - Occupational Exposure Limits		
Local name Potassium hydroxide		
WEL STEL (OEL STEL) 2 mg/m³		
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE		

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

Disodium metasilicate (6834-92-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	1.49 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	6.22 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral 0.74 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	1.55 mg/m³	
Long-term - systemic effects, dermal	0.74 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater) 7.5 mg/l		
PNEC aqua (marine water) 1 mg/l		
PNEC aqua (intermittent, freshwater)	7.5 mg/l	
PNEC (STP)		
PNEC sewage treatment plant 1000 mg/l		



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DNELDMEL (Workers)			
Description	C08-10 Alkyl glucoside (68515-73-1)		
Long-term - systemic effects, inhalation   420 mg/m³	DNEL/DMEL (Workers)		
DNEL/DMEL (General population)   25.7 mg/kg bodyweight/day   25.7 mg/kg bodyweight/day   25.7 mg/kg bodyweight/day   24.7 mg/m³   25.7 mg/kg bodyweight/day   24.7 mg/m³   25.7 mg/kg bodyweight/day   25.7 mg/kg bodyweight/day	Long-term - systemic effects, dermal	595000 mg/kg bodyweight/day	
Long-term - systemic effects, rinalation 124 mg/m³ Long-term - systemic effects, inhalation 124 mg/m³ Long-term - systemic effects, dermal 357000 mg/kg bodyweight/day PNEC (Water) PNEC (Water) PNEC aqua (fireshwater) 0.176 mg/l PNEC aqua (intermittent, freshwater) 0.27 mg/l PNEC aqua (intermittent, freshwater) 0.27 mg/l PNEC sediment (freshwater) 1.516 mg/kg dwt PNEC sediment (freshwater) 0.152 mg/kg dwt PNEC sediment (marine water) 0.152 mg/kg dwt PNEC (Sotil) PNEC (Sotil) PNEC soil 0.654 mg/kg dwt PNEC (Sotil) PNEC (Sotil) PNEC (Sotil) PNEC (Sotil) 1.11.11 mg/kg food PNEC (STP) PNEC sewage treatment plant 560 mg/l Potassium hydroxide (1310-58-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation 1 mg/m³ Potassium carbonate (584-08-7) DNEL/DMEL (Workers) Long-term - local effects, dermal 16 mg/cm² Long-term - local effects, dermal 10 mg/m³ DNEL/DMEL (Workers) Long-term - local effects, inhalation 10 mg/m³ DNEL/DMEL (General population) Long-term - local effects, inhalation 10 mg/m³ DNEL/DMEL (Workers) Long-term - local effects, dermal 16 mg/cm² Long-term - local effects, inhalation 10 mg/m³ DNEL/DMEL (General population) Long-term - local effects, dermal 8 mg/cm² DNEL/DMEL (General population) Long-term - local effects, dermal 8 mg/cm²	Long-term - systemic effects, inhalation	420 mg/m³	
Long-term - systemic effects, inhalation   124 mg/m³   357000 mg/kg bodyweight/day   PNEC (Water)   0.176 mg/l	DNEL/DMEL (General population)		
Dong-term - systemic effects, dermal   367000 mg/kg bodyweight/day	Long-term - systemic effects,oral	35.7 mg/kg bodyweight/day	
PNEC (Water)  PNEC aqua (freshwater)	Long-term - systemic effects, inhalation	124 mg/m³	
PNEC aqua (freshwater)   0.176 mg/l     PNEC aqua (marine water)   0.0176 mg/l     PNEC aqua (intermittent, freshwater)   0.27 mg/l     PNEC (Sediment)     PNEC (Sediment)     PNEC sediment (freshwater)   1.516 mg/kg dwt     PNEC sediment (marine water)   0.152 mg/kg dwt     PNEC sediment (marine water)   0.152 mg/kg dwt     PNEC (Soil)     PNEC soil   0.654 mg/kg dwt     PNEC (Oral)     PNEC oral (secondary poisoning)   111.11 mg/kg food     PNEC (STP)     PNEC sewage treatment plant   560 mg/l     Potassium hydroxide (1310-58-3)     DNEL/DMEL (Workers)     Long-term - local effects, inhalation   1 mg/m³     DNEL/DMEL (General population)     Long-term - local effects, inhalation   1 mg/m³     Potassium carbonate (584-08-7)     DNEL/DMEL (Workers)     Long-term - local effects, dermal   16 mg/cm²     Long-term - local effects, inhalation   10 mg/m³     DNEL/DMEL (General population)     Long-term - local effects, dermal   16 mg/cm²     Long-term - local effects, inhalation   10 mg/m³     DNEL/DMEL (General population)     Long-term - local effects, dermal   18 mg/cm²     DNEL/DMEL (General population)     Long-term - local effects, dermal   8 mg/cm²     Long-term - local effects, dermal   8 mg/cm²	Long-term - systemic effects, dermal	357000 mg/kg bodyweight/day	
PNEC aqua (marine water) 0.0176 mg/l PNEC aqua (intermittent, freshwater) 0.27 mg/l PNEC (Sediment) PNEC (Sediment (freshwater) 1.516 mg/kg dwt PNEC sediment (marine water) 0.152 mg/kg dwt PNEC (Soil) PNEC soil 0.654 mg/kg dwt PNEC (Oral) PNEC oral (secondary poisoning) 111.11 mg/kg food PNEC (STP) PNEC sewage treatment plant 560 mg/l Potassium hydroxide (1310-58-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation 1 mg/m³ DNEL/DMEL (Workers) Long-term - local effects, dermal 16 mg/cm² Long-term - local effects, dermal 16 mg/cm² DNEL/DMEL (Workers) Long-term - local effects, dermal 10 mg/m³ DNEL/DMEL (Workers) Long-term - local effects, dermal 18 mg/cm² DNEL/DMEL (General population) Long-term - local effects, inhalation 10 mg/m³ DNEL/DMEL (General population) Long-term - local effects, inhalation 10 mg/m³ DNEL/DMEL (General population) Long-term - local effects, inhalation 10 mg/m³ DNEL/DMEL (General population) Long-term - local effects, inhalation 10 mg/m³ DNEL/DMEL (General population) Long-term - local effects, dermal 8 mg/cm²	PNEC (Water)		
PNEC aqua (intermittent, freshwater)   0.27 mg/l	PNEC aqua (freshwater)	0.176 mg/l	
PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC osil  0.654 mg/kg dwt PNEC (Oral) PNEC oral (secondary poisoning) PNEC oral (secondary poisoning) PNEC ostrop PNEC (STP) PNEC sewage treatment plant  560 mg/l  Potassium hydroxide (1310-58-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation  1 mg/m³  Potassium carbonate (584-08-7) DNEL/DMEL (Workers) Long-term - local effects, inhalation  1 mg/m³  Potassium carbonate (584-08-7) DNEL/DMEL (Workers) Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population) Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  NEL/DMEL (General population)  Long-term - local effects, inhalation  NEL/DMEL (General population)  Long-term - local effects, dermal  8 mg/cm²	PNEC aqua (marine water)	0.0176 mg/l	
PNEC sediment (freshwater) PNEC sediment (marine water)  0.152 mg/kg dwt  PNEC (Soil)  PNEC (Soil)  PNEC Oral)  PNEC oral (secondary poisoning)  PNEC set (secondary poisoning)  PNEC oral (secondary poisoning)  PNEC sewage treatment plant  560 mg/l  Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation  1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal  16 mg/cm²  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal  8 mg/cm²	PNEC aqua (intermittent, freshwater)	0.27 mg/l	
PNEC sediment (marine water)  PNEC (Soil)  PNEC soil  PNEC (Oral)  PNEC (Oral)  PNEC oral (secondary poisoning)  Intint mg/kg food  PNEC (STP)  PNEC sewage treatment plant  Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation  I mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal  I fe mg/cm²  DNEL/DMEL (Workers)  Long-term - local effects, inhalation  I mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation  I mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation  I mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  Nong-term - local effects, dermal	PNEC (Sediment)		
PNEC (Soil)  PNEC soil 0.654 mg/kg dwt  PNEC (Oral)  PNEC oral (secondary poisoning) 111.11 mg/kg food  PNEC (STP)  PNEC sewage treatment plant 560 mg/l  Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation 1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²  NEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	PNEC sediment (freshwater)	1.516 mg/kg dwt	
PNEC soil 0.654 mg/kg dwt  PNEC (Oral)  PNEC oral (secondary poisoning) 111.11 mg/kg food  PNEC (STP)  PNEC sewage treatment plant 560 mg/l  Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation 1 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation 1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²  Long-term - local effects, dermal 8 mg/cm²	PNEC sediment (marine water)	0.152 mg/kg dwt	
PNEC (Oral) PNEC oral (secondary poisoning) PNEC (STP)  PNEC sewage treatment plant  Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation  DNEL/DMEL (General population)  Long-term - local effects, inhalation  1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal  16 mg/cm²  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal  8 mg/cm²	PNEC (Soil)		
PNEC oral (secondary poisoning)  PNEC (STP)  PNEC sewage treatment plant  560 mg/l  Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation  1 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal  16 mg/cm²  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal  8 mg/cm²	PNEC soil	0.654 mg/kg dwt	
PNEC (STP)  PNEC sewage treatment plant  560 mg/l  Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation  1 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal  16 mg/cm²  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal  8 mg/cm²	PNEC (Oral)		
PNEC sewage treatment plant 560 mg/l  Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation 1 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation 1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	PNEC oral (secondary poisoning)	111.11 mg/kg food	
Potassium hydroxide (1310-58-3)  DNEL/DMEL (Workers)  Long-term - local effects, inhalation 1 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation 1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	PNEC (STP)		
DNEL/DMEL (Workers)  Long-term - local effects, inhalation 1 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation 1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	PNEC sewage treatment plant	560 mg/l	
Long-term - local effects, inhalation 1 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, inhalation 1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	Potassium hydroxide (1310-58-3)		
DNEL/DMEL (General population)  Long-term - local effects, inhalation 1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	DNEL/DMEL (Workers)		
Long-term - local effects, inhalation 1 mg/m³  Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	Long-term - local effects, inhalation	1 mg/m³	
Potassium carbonate (584-08-7)  DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	DNEL/DMEL (General population)		
DNEL/DMEL (Workers)  Long-term - local effects, dermal 16 mg/cm²  Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	Long-term - local effects, inhalation	1 mg/m³	
Long-term - local effects, dermal  Long-term - local effects, inhalation  10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal  8 mg/cm²	Potassium carbonate (584-08-7)		
Long-term - local effects, inhalation 10 mg/m³  DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	DNEL/DMEL (Workers)		
DNEL/DMEL (General population)  Long-term - local effects, dermal 8 mg/cm²	Long-term - local effects, dermal	16 mg/cm <sup>2</sup>	
Long-term - local effects, dermal 8 mg/cm <sup>2</sup>	Long-term - local effects, inhalation	10 mg/m³	
	DNEL/DMEL (General population)		
Long-term - local effects, inhalation 10 mg/m³	Long-term - local effects, dermal	8 mg/cm <sup>2</sup>	
<u> </u>	Long-term - local effects, inhalation	10 mg/m³	

### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

No special requirement.



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#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear eye protection. Wear protective gloves.

### Personal protective equipment symbol(s):





### 8.2.2.1. Eye and face protection

#### Eye protection:

Wear eye protection

#### 8.2.2.2. Skin protection

# Skin and body protection:

No special requirement

#### Hand protection:

Wear protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

No respiratory protection needed under normal use conditions

# 8.2.2.4. Thermal hazards

#### Thermal hazard protection:

Not required.

### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

No special environmental concerns.

## Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

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

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Blue. Appearance Liquid. Odour characteristic. : Not available Odour threshold Melting point : Not available : Not available Freezing point : Not available **Boiling point** Flammability Not applicable Lower explosion limit Not available Not available Upper explosion limit Not available Flash point Not available Auto-ignition temperature Decomposition temperature Not available 11 - < 12pН Viscosity, kinematic Not available Solubility Easily soluble. Partition coefficient n-octanol/water (Log Kow) Not available Not available Vapour pressure Vapour pressure at 50°C Not available



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Density : Not available
Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

# 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Disodium metasilicate (6834-92-0)		
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)	
C08-10 Alkyl glucoside (68515-73-1)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
Potassium carbonate (584-08-7)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:	



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LDEO I III'	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:, Remarks on results: other:
kin corrosion/irritation	: Causes skin irritation. pH: 11 – < 12
Potassium hydroxide (1310-58-3)	
рН	≈ 13.5 Temp.: 25 °C Concentration: 5,611 g/L Remarks on result: 'other:'
Potassium carbonate (584-08-7)	
рН	11.6
Serious eye damage/irritation	: Causes serious eye damage. pH: 11 – < 12
Potassium hydroxide (1310-58-3)	
рН	≈ 13.5 Temp.: 25 °C Concentration: 5,611 g/L Remarks on result: 'other:'
Potassium carbonate (584-08-7)	
рН	11.6
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Disodium metasilicate (6834-92-0)	
STOT-single exposure	May cause respiratory irritation.
Potassium carbonate (584-08-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Disodium metasilicate (6834-92-0)	
NOAEL (oral, rat, 90 days)	227 – 237 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
C08-10 Alkyl glucoside (68515-73-1)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxic Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified

### 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

 $\label{thm:local_equation} \mbox{Hazardous to the aquatic environment, short-term}$ 

(acute)

: Not classified

 $\label{thm:long-term} \mbox{Hazardous to the aquatic environment, long-term}$ 

: Not classified

(chronic)

(Gillotilo)	
Disodium metasilicate (6834-92-0)	
EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna



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Disodium metasilicate (6834-92-0)			
EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
C08-10 Alkyl glucoside (68515-73-1)			
LC50 - Fish [1]	100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
LC50 - Fish [2] 170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio re			
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
EC50 72h - Algae [2]	37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
Potassium carbonate (584-08-7)			
LC50 - Fish [1]	68 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)		
EC50 - Crustacea [1] 200 mg/l Test organisms (species): Daphnia pulex			

# 12.2. Persistence and degradability

Fraser AeroWash		
Persistence and degradability	Readily biodegradable.	
Disodium metasilicate (6834-92-0)		
Persistence and degradability	Rapidly degradable	
C08-10 Alkyl glucoside (68515-73-1)		
Persistence and degradability	Not rapidly degradable	
Potassium hydroxide (1310-58-3)		
Persistence and degradability Not rapidly degradable		
Potassium carbonate (584-08-7)		
Persistence and degradability	Not rapidly degradable	

# 12.3. Bioaccumulative potential

Fraser AeroWash	
Bioaccumulative potential	The product is miscible in water and readily biodegradable in both water and soil.  Accumulation is not expected.

# 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

# Fraser AeroWash

This mixture is not considered to be persistent, bioaccumulating and toxic (PBT)

This mixture is not considered to be persistent, bioaccumulating and toxic (PVB)



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### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

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

## 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID		
14.1. UN number or ID n	14.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping	g name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard o	14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
No supplementary informatio	No supplementary information available					

### 14.6. Special precautions for user

### **Overland transport**

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

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

Not applicable



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

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	



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Abbreviations and acronyms:		
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
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.	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	



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# Full text of H- and EUH-statements:

STOT SE 3

Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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