

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 01 June 2017 Revision date:06 March 18 Version: 3.2

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

**Product identifier** 1.1.

Product form : Mixture

Product name : Sentinel X900 Filter Aid

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

#### 1.2.1. Relevant identified uses

Main use category : Filtration enhancer for central heating systems filters

#### 1.2.2. Uses advised against

No additional information available

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

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#### **Emergency telephone number**

: +44 (0) 1928 704 339 Emergency number (24 hours, 7 days)

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

#### Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

### **Label elements**

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

No labelling applicable

#### Other hazards 2.3.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Other hazards not contributing to the classification

: May cause eye irritation. Repeated or prolonged contact may cause skin irritation. Ingestion may cause irritation of the gastrointestinal tract.

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

### **Substance**

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium hydroxide	(CAS No) 1310-58-3 (EC No.) 215-181-3 (EC index No.) 019-002-00-8 (REACH-no) 01-2119487136-33-XXXX	< 0.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

Full text of H-phrases: see section 16

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

## **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation Remove to fresh air, keep the patient warm and at rest. If symptoms develop obtain medical

attention.

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Remove affected clothing and wash all exposed skin area with mild soap and water, followed by First-aid measures after skin contact

warm water rinse. If symptoms develop obtain medical attention.

First-aid measures after eve contact Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If symptoms develop obtain medical attention.

First-aid measures after ingestion Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop

obtain medical attention.

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

Symptoms/injuries after skin contact : Contact during a long period may cause light irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries upon intravenous Ingestion may cause irritation of the gastrointestinal tract.

administration

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

Treat symptomatically.

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

### **Extinguishing media**

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

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

Hazardous decomposition products in case of

: Carbon dioxide. Carbon monoxide. Nitrogen oxides.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid fire-fighting water entering the environment.

Protection during firefighting : As in any fire, wear self-contained breathing apparatus and full protective gear.

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

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

#### For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

: Use chemically protective clothing. Protective equipment

: Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. **Emergency procedures** 

#### 6.2. **Environmental precautions**

None

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

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store aways from other materials.

### Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

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

### Precautions for safe handling

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Wear recommended personal protective equipment. Take off contaminated clothing

and wash before reuse.

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or Hygiene measures smoke when using this product.

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

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when

not in use. Protect material from direct sunlight.

### Specific end use(s)

Filtration enhancer for central heating systems filters.

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

### **Control parameters**

Potassium hydroxide (1310-58-3)		
United Kingdom	Local name	Potassium hydroxide
United Kingdom	WEL STEL (mg/m³)	2 mg/m³

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8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation, including appropriate local extraction, to ensure that occupational

exposure limits are not exceeded.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. Eye protection : Chemical goggles or safety glasses. Standard EN 166 - Personal eye-protection.

Skin and body protection : Use chemically protective clothing.

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable

respiratory equipment.

Thermal hazard protection : Not required for normal conditions of use.

Environmental exposure controls : Not required

Other information : Do not eat, drink or smoke during use. Handle 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

Appearance : Aqueous solution.

Colour : Clear. orange. brown.

Odour Codour threshold : characteristic.

Odour threshold : No data available pH : 6.8 @ 25 °C

Relative evaporation rate (butylacetate=1) : No data available

Relative evaporation rate (ether=1) : <1
Melting point : -11 °C

Freezing point : No data available

Boiling point :  $100 \, ^{\circ}\text{C}$ Flash point :  $> 100 \, ^{\circ}\text{C}$ 

Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Non flammable.

Vapour pressure : No data available

Relative vapour density at 20  $^{\circ}$ C : <1 Relative density, gas (air=1)

Relative density : 1.08 @ 25 °C Solubility Miscible with water. Log Pow : No data available Log Kow : No data available : No data available Viscosity, kinematic Viscosity, dynamic No data available : Not explosive. Explosive properties Oxidising properties : Not oxidising. : No data available **Explosive limits** 

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None known.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

None known.

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#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

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

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Sentinel X900 Filter Aid	
LD50 oral rat	> 3000 mg/kg (calculated value)
LD50 dermal rabbit	> 14000 mg/kg (calculated value)

Potassium hydroxide (1310-58-3)

LD50 oral rat 365 mg/kg

Skin corrosion/irritation : Not classified

Based on available data, the classification criteria are not met

pH: 6.4 @ 25 °C

Serious eye damage/irritation : Not classified

Based on available data, the classification criteria are not met

pH: 6.4 @ 25 °C

Respiratory or skin sensitisation : Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated

exposure)

: Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential Adverse human health effects and

symptoms

Based on available data, the classification criteria are not met.

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

#### 12.1. Toxicity

Sentinel X900 Filter Aid	
EC50 Daphnia	> 7000 mg/l 48 h - Daphnia magna

## 12.2. Persistence and degradability

Sentinel X900 Filter Aid	
Persistence and degradability	No information available.

#### 12.3. Bioaccumulative potential

Sentinel X900 Filter Aid	
Bioaccumulative potential	Low bioaccumulation potential.

### Potassium hydroxide (1310-58-3)

Log Pow 0.65

## 12.4. Mobility in soil

Sentinel X900 Filter Aid	
Ecology - soil	No information available.

### 12.5. Results of PBT and vPvB assessment

#### Sentinel X900 Filter Aid

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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12.6. Other adverse effects

None

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

#### Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should

be taken to an approved waste handling site for recycling or disposal.

Ecology - waste materials : Avoid release to the environment.

#### SECTION 14: Transport information

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

#### 14.1. **UN** number

No dangerous good in sense of transport regulations

#### **UN** proper shipping name

Proper Shipping Name (ADR/RID) : Not applicable Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (IMDG) Not applicable

#### Transport hazard class(es)

Not applicable

#### 14.4. **Packing group**

Not applicable

#### 14.5. **Environmental hazards**

Other information : Not classified.

#### Special precautions for user 14.6.

Special transport precautions : No special precautions required.

#### **Overland transport** 14.6.1.

No additional information available

#### Transport by sea 14.6.2.

No additional information available

#### 14.6.3. Air transport

No additional information available

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

Not applicable

## **SECTION 15: Regulatory information**

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

#### 15.1.1. **EU-Regulations**

No REACH Annex XVII restrictions

Contains no REACH candidate substance

#### 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**

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

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Other information

### Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
С	Corrosive

: None.

### NCEC SDS EU (REACH ANNEX II)

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.

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