

# PRODUCT SAFETY DATA SHEET



This generic SDS is provided by MGS Ltd to give information to assist with material handling of the products listed which are according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Doc No:	HS8 C42-133
Version:	MGS 3/JS
Date:	October 2025
Review Date:	October 2026

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

### 1.1 Product Identifier

Product Name:	Sentinel R800
Chemical Name:	Potassium hydroxide

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

Recommended Use:	Cleaning agent for heat pump circuits
Restriction on Use:	None
Physical Properties:	Colourless, odourless liquid

### 1.3 Details of the supplier of the Safety Data Sheet

Name:	MGS Ltd
Address:	Rougham Industrial Estate, Bury St Edmunds, IP30 9ND
Country:	UK
Phone N°:	+44 1359 271167
Email:	info@mgs.co.uk
Website:	www.mgs.co.uk

### 1.4 Emergency telephone number

Emergency telephone at the company:	+44 7738 197 517
Available outside office hours:	Yes
Language of the phone service:	English
E-mail of competent person responsible:	darren.portway@mgs.co.uk
National contact:	Darren Portway

## SECTION 2: Hazard Identification

### 2.1 Classification of the substance or mixture

Not classified.

### 2.2 Label elements

No labelling applicable.

### 2.3 Other hazards

May cause skin and eye irritation. Ingestion may cause irritation of the gastrointestinal tract.  
This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition / Information on Ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Chemical Name	EC-N0	CAS No	w/w%	Classification (EU Reg 1272/2008)	REACH Registration Number
Potassium hydroxide	215-818-3	1310-58-3	<1	Acut tox. 4 (H302) Skin corr. 1A (H314)*	01-2119487136-33

For the full text of H-Statements see Section 16.

\*Substance with Workplace Exposure Limit – See Section 8.

## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

Skin contact:	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. If symptoms develop, obtain medical attention.
Eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms develop obtain medical attention.

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<b>Ingestion:</b>	Do NOT induce vomiting. Wash out mouth with water and give 100 – 200 ml of water to drink. If symptoms develop obtain medical attention.
<b>Inhalation:</b>	Remove patient from exposure, keep warm and at rest. If symptoms develop obtain medical attention.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
May cause skin and eye irritation. Ingestion may cause irritation of the gastrointestinal tract.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Treat symptomatically.	
<b>SECTION 5: Fire Fighting Measures</b>	
<b>5.1 Extinguishing media</b>	
Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ) or foam	
<b>5.2 Special hazards arising from the substance or mixture</b>	
Thermal decomposition can lead to release of irritating toxic gases and vapours. Carbon monoxide (CO), Carbon Dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Sulphur Oxides, Chlorine, Phosphorus Oxides.	
<b>5.3 Advice for fire fighters</b>	
As in any fire, wear self-contained breathing apparatus and full protective gear. Cool containers / tanks with water spray.	
<b>SECTION 6: Accidental Release Measures</b>	
<b>6.1 Personal precautions, protective equipment, and emergency procedures</b>	
Ensure adequate ventilation. Avoid contact with the skin and eyes. Avoid breathing vapours or mists. Use personal protective equipment.	
<b>6.2 Environmental precautions</b>	
Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.	
<b>6.3 Methods and material for containment and cleaning up</b>	
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.	
<b>6.4 Reference to other sections</b>	
Section 8 – Exposure controls/personal protection. Section 13 – disposal considerations.	
<b>SECTION 7: Handling &amp; Storage</b>	
<b>7.1 Precautions for safe handling</b>	
Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing vapours and mist. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke during work. Wash thoroughly after handling.	
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
Keep only in the original container / package in a cool well-ventilated place.	
<b>7.3 Specific end use(s)</b>	
Cleaning agent for heat pump circuits.	
<b>SECTION 8: Exposure Controls / Personal Protection</b>	
<b>8.1 Control parameters</b>	
<b>Chemical Name</b>	<b>Potassium hydroxide 1310-58-3</b>
The United Kingdom	STEL – 2 mg/m <sup>3</sup>
France	STEL – 2 mg/m <sup>3</sup>
Spain	STEL – 2 mg/m <sup>3</sup>
Portugal	Ceiling – 2 mg/m <sup>3</sup>
Finland	STEL – 2 mg/m <sup>3</sup> Ceiling – 2 mg/m <sup>3</sup>

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Denmark	Ceiling – 2 mg/m <sup>3</sup>
Austria	TWA – 2 mg/m <sup>3</sup>
Switzerland	TWA – 2 mg/m <sup>3</sup>
Poland	STEL – 1 mg/m <sup>3</sup> TWA – 0.5 mg/m <sup>3</sup>
Norway	Ceiling – 2 mg/m <sup>3</sup>
Ireland	STEL – 2 mg/m <sup>3</sup>

## 8.2 Exposure controls

### Engineering Controls

Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded.

Chemical goggles or safety glasses. EN 166



Not normally required. In case of insufficient ventilation wear suitable respiratory equipment



Protective gloves. EN 374



Wear suitable protective clothing – long sleeved



### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

### Environmental Exposure Control

Avoid release to the environment.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Aqueous solution
Odour	Odourless
Odour threshold	No data available
pH	12.9 @ 25°C
Melting/freezing point	No data available
Freezing point	No data available
Boiling point / boiling range	No data available
Flash point	Not flammable
Evaporation point	No data available
Evaporation rate	No data available
Flammability limits in air upper / lower	No data available
Vapour pressure	No data available
Vapour density	No data available

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Relative density	1.01 @ 25°C		
Water Solubility	Miscible		
Solubility in other solvents	No data available		
Partition coefficient: n-octanol/water	No data available		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Viscosity, kinematic	No data available		
Viscosity, dynamic	No data available		
Explosive properties	Not explosive		
Oxidising properties	Not oxidising		
<b>9.2 Other information</b>			
No additional information available			
<b>SECTION 10: Stability and Reactivity</b>			
<b>10.1 Reactivity</b>			
No data available			
<b>10.2 Chemical stability</b>			
Stable under normal conditions.			
<b>10.3 Possibility of hazardous reactions</b>			
No data available			
<b>10.4 Conditions to avoid</b>			
Heat, flames and sparks			
<b>10.5 Incompatible materials</b>			
Acids			
<b>10.6 Hazardous decomposition products</b>			
Thermal decomposition can lead to a release of irritating and toxic gases and vapours. Carbon monoxide (CO), Carbon Dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Sulphur Oxides, Chlorine, Phosphorus Oxides.			
<b>SECTION 11: Toxicological Information</b>			
<b>11.1 Information on toxicological effects</b>			
Inhalation	No known effect based on information supplied		
Eye contact	May cause eye irritation		
Skin contact	May cause skin irritation		
Ingestion	Ingestion may cause irritation of the gastrointestinal tract		
<b>Acute toxicity</b>			
<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Potassium hydroxide	365 mg/kg (Rat)	-	-
Skin corrosion / irritation	Not classified		
Serious eye damage / irritation	Not classified		
Respiratory or skin sensitisation	Not classified		
Germ cell mutation	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity	Not classified		
STOT – single exposure	Not classified		

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STOT – repeated exposure	Not classified	
Aspiration hazard	Not classified	
SECTION 12: Ecological Information		
12.1 Toxicity		
WGK Classification 1		
12.2 Persistence and degradability		
Product is biodegradable		
12.3 Bio accumulative potential		
Chemical Name	Bioconcentration factor (BDF)	log Pow
Potassium hydroxide	-	0.65 0.83
12.4 Mobility in soil		
No information available.		
12.5 Results of PBT and vPvB assessment		
This preparation contains no substance considered to be persistent, bioaccumulating, no toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).		
12.6 Other adverse effects		
No information available.		
SECTION 13: Disposal Considerations		
13.1 Waste treatment methods		
Waste from residues / unused products: Disposal should be in accordance with local, state or national legislation		
Contaminated packaging: Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.		
SECTION 14: Transportation Information		
14.1 UN number		
Not classified as hazardous transport.		
14.2 UN proper shipping name		
Not applicable.		
14.3 Transport hazard class(es)		
Not applicable.		
14.4 Packing group		
Not applicable.		
14.5 Environmental hazards		
Not classified.		
14.6 Special precaution for user		
No special precautions.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not applicable.		

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## SECTION 15: Regulatory Information

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

This safety data sheet complies with the requirements of Regulations (EC) No. 1907/2006 and No. 830/2015

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other Information

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

### Disclaimer:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability of completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their own particular use.