

# SAFETY DATA SHEET

## service engineer for washing machines and dishwashers

### 1. Identification of the substance/preparation and of the company/undertaking

**Identification of the substance or preparation**

**Product name** : service engineer for washing machines and dishwashers  
**Product use** : Cleaning solutions.

**Company/undertaking identification**

**Manufacturer** : HG International b.v. **Telephone No.:** : +31 (0)36 54 94 700  
**Address** : Damsluisweg 70 **Fax** : +31 (0)36 54 94 744  
 1332 EJ Almere **Internet:** : www.hg.eu  
**Country** : Netherlands **E-mail** : safety@hg.eu  
**Importer** : HG UK  
**Address** : Unit 11 Grange Way Business Park Whitehall Road Industrial Estate  
 Uk Colchester Essex CO2 8HF  
**Telephone No.:** : +44.1206.795.200  
**Fax** : +44.1206.795.201  
**Country** : United Kingdom (UK)

### 2. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : C; R35  
**Human health hazards** : Causes severe burns.

See section 11 for more detailed information on health effects and symptoms.

### 3. Composition/information on ingredients

**Substance/preparation** : Preparation

Ingredient name	CAS number	EC Number	%	Classification
<b>United Kingdom (UK)</b>				
Sodium hydroxide	1310-73-2	215-185-5	15 - 30	C; R35
Sodium carbonate	497-19-8	207-838-8	5 - 15	Xi; R36

See section 16 for the full text of the R Phrases declared above

\* Occupational Exposure Limit(s), if available, are listed in Section 8

### 4. First aid measures

**First aid measures**

**Inhalation** : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin Contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Notes to physician** : Not available.
- Specific treatments** : Not available.
- See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

- Extinguishing media** : Use an extinguishing agent suitable for surrounding fires.
- Special exposure hazards** : No specific fire or explosion hazard.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon oxides (CO, CO<sub>2</sub>), sulphur oxides (SO<sub>2</sub>, SO<sub>3</sub>, etc.), halogenated compounds, hydrogen chloride. Some metallic oxides.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal Precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

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#### 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Not available.

#### 8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> Sodium hydroxide	<b>EH40-OES (United Kingdom (UK), 2002). Notes:</b> STEL: 2 mg/m <sup>3</sup> 15 minute(s).

- Exposure controls**
- Occupational exposure controls** : Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Respiratory protection** : Recommended: Dust respirator.
- Hand protection** : >8 hours (breakthrough time): Butyl rubber gloves.
- Eye protection** : Recommended: safety glasses with side shields
- Skin protection** : Recommended: Work uniform or laboratory coat.

#### 9. Physical and chemical properties

##### General information

- Appearance**
- Physical state** : Solid. [Powder.]
- Colour** : White to yellowish.
- Odour** : Fragrance-like.

##### Important health, safety and environmental information

- pH** : 13,09 [Conc. (% w/w): 1%]
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Not available.
- Explosive properties** : Not available.

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<b>Oxidising properties</b>	: Not available.
<b>Relative density</b>	: 1.21 to 1.26 g/cm <sup>3</sup> (20°C / 68°F)
<b>Solubility</b>	: Easily soluble in the following materials: hot water. Soluble in the following materials: cold water.

**Other information**

### 10. Stability and reactivity

<b>Stability</b>	: Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to Avoid</b>	: Keep from any possible contact with water.
<b>Materials to avoid</b>	: Extremely reactive or incompatible with acids, moisture. Reactive with metals.
<b>Hazardous Decomposition Products</b>	: Decomposition products may include the following materials: carbon oxides (CO, CO <sub>2</sub> ), sulphur oxides (SO <sub>2</sub> , SO <sub>3</sub> , etc.), halogenated compounds, hydrogen chloride. Some metallic oxides.

### 11. Toxicological information

**Potential acute health effects**

<b>Inhalation</b>	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
<b>Ingestion</b>	: May cause burns to mouth, throat and stomach.
<b>Skin Contact</b>	: Severely corrosive to the skin. Causes severe burns.
<b>Eye contact</b>	: Severely corrosive to the eyes. Causes severe burns.

**Acute toxicity**

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Sodium hydroxide	LDLo	500 mg/kg	Oral	Rabbit
Sodium carbonate	LD50	4090 mg/kg	Oral	Rat
	LD50	6600 mg/kg	Oral	Mouse
	LDLo	714 mg/kg	Oral	man

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin</b>	: No known significant effects or critical hazards.
<b>Target organs</b>	: Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea, stomach.
<b>Other adverse effects</b>	: Not available.

### 12. Ecological information

**Ecotoxicity data**

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Sodium carbonate	LEPOMIS MACROCHIRUS (LC50)	96 hour(s)	300 mg/l
	DAPHNIA MAGNA (LC50)	96 hour(s)	500 mg/l
	DAPHNIA MAGNA (LC50)	24 hour(s)	265 mg/l

No known significant effects or critical hazards.

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**Other adverse effects**

### 13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Waste classification** : Not applicable.  
: Not available.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

### 14. Transport information

**International transport regulations**

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
<b>ADR/RID Class</b>	3262	UN 3262, LMT QTY, BASIC, INORGANIC, N.O.S. , CLASS 8, II (Sodium hydroxide)	8	II		<b>Hazard identification number</b> 80  <b>Reportable quantity</b> 12  <b>Limited quantity</b> LQ23
<b>ADN Class</b>	3262	UN 3262, LMT QTY, BASIC, INORGANIC, N.O.S. , CLASS 8, II mixture (Sodium hydroxide)	8	II		-
<b>IMDG Class</b>	3262	UN 3262, LMT QTY, BASIC, INORGANIC, N.O.S. , CLASS 8, II mixture (Sodium hydroxide)	8	II		<b>Emergency schedules (EmS)</b> F-A S-B
<b>IATA-DGR Class</b>	3262	UN 3262, LMT QTY, BASIC, INORGANIC, N.O.S. , CLASS 8, II mixture (Sodium hydroxide)	8	II		-

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### 15. Regulatory information

#### EU Regulations

Hazard symbol(s)



Corrosive

Risk Phrases

: R35- Causes severe burns.

Safety Phrases

: S1/2- Keep locked up and out of the reach of children.

S22- Do not breathe dust.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S64- If swallowed, rinse mouth with water (only if the person is conscious).

Contains

: Sodium hydroxide

Other EU regulations

: Not available.

Product use

: Consumer applications.

#### Other EU regulations

Child protection

: Yes, applicable.

Tactile warning of danger

: Yes, applicable.

EC Statistical classification

: 32089091

(Tariff Code)

### 16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) : R35- Causes severe burns.  
R36- Irritating to eyes.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : C - Corrosive  
Xi - Irritant

#### History

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Verified by P. Stienstra.

#### Notice to reader

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*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*