

## Safety Data Sheet

### According to 1907/2006/EC

This International MSDS is for information only. It does not meet all applicable regulatory requirements and does not replace the relevant statutory

data sheet for your country.

Printing Date 21.09.2009

Revision 14.09.2009

### 1 Product and company identification

- **Brandname:** SUMA UNISON MAXI G3
- **Application of the product:** Professional kitchen hygiene product.
- **Manufacturer/Supplier:** JohnsonDiversey local operating company
- **Information department:** JohnsonDiversey local operating company
- **Emergency information:** JohnsonDiversey local operating company

### 2 Hazards identification

- **Classification:** C Corrosive
- **Hazards for man and the environment:**
  - R 31 Contact with acids liberates toxic gas.
  - R 35 Causes severe burns.
  - R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**

The classification complies with current EC regulations on dangerous substances and preparations.

### 3 Composition/Information on ingredients

- **Chemical characterization**
- **Description:** Powder mixture of non-dangerous ingredients and substances listed below.
 

Hazardous ingredients:	
1310-73-2 sodium hydroxide	>= 30 %
C; R 35	
EINECS: 215-185-5	
51580-86-0 sodium dichloroisocyanurate, dihydrate	< 5 %
Xn, Xi, N; R 22-31-36/37-50/53	
EINECS: 220-767-7	
111905-54-5 alkyl alcohol alkoxyate	< 5 %
Xi, N; R 38-50	
EINECS: Polymer	
- **Ingredients according to EC Detergents Regulation 648/2004**

phosphates	>= 30% non-
ionic surfactants, polycarboxylates, chlorine-based bleaching agents	< 5%
- **Additional information:**

The full text of the relevant risk phrases is given in section 16.

### 4 First aid measures

- **General information:** Remove contaminated clothing immediately.
- **Inhalation:**

Remove from source of exposure. Obtain medical attention if symptoms develop.

In case of unconsciousness bring patient into stable side position for

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transport.

· **Skin contact:**

Wash skin immediately and thoroughly with water. Remove contaminated clothing.

Obtain medical attention if symptoms develop.

· **Eye contact:**

Wash immediately with copious amounts of water and obtain medical attention.

· **Ingestion:**

Remove material from mouth. Drink one or two glasses of water or milk and obtain medical attention without delay.

### 5 Fire fighting measures

· **Suitable extinguishing media:**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **Protective equipment:** Put on breathing apparatus.

### 6 Accidental release measures

· **Protection of personnel:**

Put on breathing device.

Wear suitable protective clothing, gloves and eye/face protection.

· **Environmental precautions:**

Inform responsible authorities in case product reaches water or sewage system.

· **Method of disposal:**

Ensure adequate ventilation.

Collect mechanically.

Dispose of the collected material according to the regulations.

### 7 Handling and storage

· **Handling (see also sections 8 and 15)**

· **Information for safe handling:**

Thorough dedusting.

Prevent formation of dust.

· **Information about protection against explosions and fires:**

No special measures required.

· **Storage**

· **Requirements for storage rooms and containers:**

According to local legislation.

· **Storage in one common storage facility:**

Do not store together with acids.

According to local legislation.

· **Further information about storage conditions:**

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Store under dry conditions.

## 8 Exposure controls and personal protection

· **Additional information about design of technical systems:**

No further data; see section 7.

Components with limit values that require monitoring at the workplace: 1310-73-2 sodium hydroxide ( $\geq 30\%$ )

WEL (Great Brittain): Short-term value: 2 mg/m<sup>3</sup>

· **Additional information:**

The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Personal protection is not normally required. However, inhalation of dust, vapour or aerosol should be avoided.

· **Protection of hands:**

Chemical-resistant protective gloves made of butyl or nitrile rubber (EN 374, category III). In consultation with the supplier of protective gloves a different type of similar quality may be chosen.

· **Eye protection:** Tightly fitting safety glasses.

## 9 Physical and chemical properties

· **General Information**

· **Form:** Solid

· **Colour:** White

· **Odour:** Chlorine-like

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· **Change in condition**

· **Melting point/Melting range:**

Value/Range Unit Method  
Not determined

· **Boiling point/Boiling range:**

Not determined

· **Flash point:**

Not applicable.

· **Spontaneous combustion:**

Product is not self igniting.

· **Danger of explosion:**

Product is not explosive.

· **Density:** at 20 ° C

1.06 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

· **Water:**

Soluble

· **pH-value:**

pH (1%) > 12.5

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### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions:**  
Reacts with water and acids  
Reacts with acids releasing chlorine
- **Hazardous decomposition products:** Chlorine

### 11 Toxicological information

- **Acute toxicity:**
- **LD50 (oral):**  
Based on the toxicological classification the LD50 (oral) is estimated to be 200-2000 mg/kg.  
This value is of no practical significance due to the corrosive nature of the product.
- **Primary irritant effect:**
- **skin contact:** Causes severe burns.
- **eye contact:** Causes severe or permanent damage.
- **inhalation:**  
Severe irritant, may cause pulmonary oedema and may cause bronchospasm in chlorine sensitive individuals.
- **ingestion:**  
Causes severe burns.  
Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Additional toxicological information:**  
EC classification:  
Corrosive

### 12 Ecological information

- **Classification:**  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
The classification of the product is due to the component(s) listed in section 3 with an environmental classification (R50 - R53).
- **Ecotoxicological effects:**  
Aquatic toxicity:  
Based on the environmental classification the toxicity for aquatic organisms (as defined in 67/548/EEC, Annex V) is estimated to be 10-100 mg/l.
- **General notes:**  
Must not reach sewage water or drainage ditch undiluted or unneutralized.  
When used for its intended purpose this product should not cause

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adverse effects in the environment.  
The information in this section refers to the undiluted product.

### 13 Disposal considerations

- **Product**
- **Recommendation:** Dispose of observing official regulations.
- **European waste catalogue:** 20 01 15: alkalines
- **Uncleaned packagings**
- **Recommendation:** Dispose of observing official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID Class:** 8 Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** 1823
- **Packaging group:** II
- **Label:** 8
- **Proper Shipping Name:** 1823 SODIUM HYDROXIDE, SOLID, MIXTURE
- **Maritime transport IMDG:**
- **IMDG Class:** 8
- **UN Number:** 1823
- **Label:** 8
- **Packaging group:** II
- **EmS number:** F-A,S-B
- **Marine pollutant:** No
- **Proper Shipping Name:** SODIUM HYDROXIDE, SOLID, MIXTURE
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1823
- **Label:** 8
- **Packaging group:** II
- **Proper Shipping Name:** SODIUM HYDROXIDE, SOLID, MIXTURE
- **Transport/Additional information:**  
Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

### 15 Regulatory information

- **Classification according to EC guidelines:**  
The product has been classified and labelled in accordance with current EC Directives.
- **Symbol and hazard indication of product:** C Corrosive

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- **Ingredients responsible for the classification:** sodium hydroxide
- **Risk phrases:**
  - 31 Contact with acids liberates toxic gas.
  - 35 Causes severe burns.
  - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
  - 8 Keep container dry.
  - 22 Do not breathe dust.
  - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  - 28 After contact with skin, wash immediately with plenty of water.
  - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
  - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
  - 61 Avoid release to the environment. Refer to safety data sheet.

## 16 Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.

- **Text of risk phrases associated with ingredients listed in section 3:**
  - 22 Harmful if swallowed.
  - 31 Contact with acids liberates toxic gas.
  - 35 Causes severe burns.
  - 36/37 Irritating to eyes and respiratory system.
  - 38 Irritating to skin.
  - 50 Very toxic to aquatic organisms.
  - 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Department issuing material safety data sheet:**  
JohnsonDiversey Europe BV, Professional & Regulatory Affairs, Research & Development - EMA region, Utrecht, The Netherlands
- **Contact:**  
For information to JohnsonDiversey operating companies: JohnsonDiversey Europe BV, Professional & Regulatory Affairs, Research & Development - EMA region, Utrecht, The Netherlands
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