

## Material Safety Data Sheet

### According to 91/155 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 06.07.2002

Reviewed on 05.07.2002

#### 1 Product and company identification

- **Brandname:** DIVOSTAR QUATTRO VC73
- **Application of the product:**  
Professional cleaning/maintenance product for food & beverage industries.
- **Manufacturer/Supplier:** JohnsonDiversey
- **Information department:** JohnsonDiversey local operating company
- **Emergency information:** JohnsonDiversey local operating company

#### 2 Composition / Information on ingredients

- **Chemical characterization**
- **Description:**  
Mixture in water of non-dangerous ingredients and the substances listed below.

Hazardous ingredients:

1310-73-2 sodium hydroxide >= 30 %  
C; R 35

EINECS: 215-185-5

146340-16-1 alkyl alcohol ethoxylate, modified < 5 %  
Xi, N; R 38-50  
Polymer

- **Additional information:**  
The full text of the relevant risk phrases is given in section 16.

#### 3 Hazards identification

- **Classification:** C Corrosive
- **Hazards for man and the environment:** R 35 Causes severe burns.
- **Classification system**  
The classification complies with current EC regulations on dangerous substances and preparations.

#### 4 First aid measures

- **General information** Remove contaminated clothing immediately.
- **Inhalation**  
In case of unconsciousness bring patient into stable side position for 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.

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(Continued on page 2)

**Brandname: DIVOSTAR QUATTRO VC73**

(Continued from page 1)

#### 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:** No special measures required.

#### 6 Accidental release measures

- **Protection of personnel:**  
Wear suitable protective clothing, gloves and eye/face protection.
- **Environmental precautions:** Dilute with plenty of water.
- **Method of disposal:**  
Use neutralizing agent.  
Absorb onto dry sand or similar inert material.  
Dispose of the collected material according to the regulations.

#### 7 Handling and storage

- **Handling (see also sections 8 and 15)**
- **Information for safe handling:**  
Use common rules for working with chemicals.
- **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:** According to local legislation.
- **Further information about storage conditions:** None.

#### 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 ( $\geq 30\%$ )  
OES (Great Britain): 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.

(Continued on page 3)

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(Continued from page 2)

- **Breathing equipment:** Personal protection is not normally required.
- **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:** Liquid

· **Colour:**

Pale yellow

Cloudy

· **Odour:** Characteristic

·

	Value/Range	Unit	Method
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· **Change in condition**

· **Melting point/Melting range:** 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 1.48 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

· **Water:** Fully miscible

· **pH-value:** pH > 12.5

## 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Dangerous reactions** Strong exothermic reaction with acids

· **Hazardous decomposition products:**

No dangerous decomposition products known.

## 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.

(Continued on page 4)

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(Continued from page 3)

· **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

· **General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralized.

When used for its intended purpose this product should not cause adverse effects in the environment.

### 13 Disposal considerations

· **Product**

· **Recommendation:**

Must not be disposed of together with domestic waste. Do not allow undiluted product to reach sewage system.

· **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:** 1824

· **Packaging group:** II

· **Label** 8

· **Proper Shipping Name:** 1824 SODIUM HYDROXIDE SOLUTION

· **Maritime transport IMDG:**

· **IMDG Class:** 8

· **UN Number:** 1824

· **Label** 8

· **Packaging group:** II

· **EMS Number:** 8-06

· **Marine pollutant:** No

· **Proper Shipping Name:** SODIUM HYDROXIDE SOLUTION

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 8

· **UN/ID Number:** 1824

(Continued on page 5)

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(Continued from page 4)

- **Label** 8
- **Packaging group:** II
- **Proper Shipping Name:** SODIUM HYDROXIDE SOLUTION
- **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
- **Ingredients responsible for the classification:** sodium hydroxide
- **Risk phrases:** 35 Causes severe burns.
- **Safety phrases:**
  - 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).

### 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 2**
    - 35 Causes severe burns.
    - 38 Irritating to skin.
    - 50 Very toxic to aquatic organisms.
  - **Department issuing material safety data sheet:**  
JohnsonDiversey Regulatory Group PP&I, Utrecht, The Netherlands
  - **Contact:**  
JohnsonDiversey Regulatory Group PP&I, Utrecht, The Netherlands, for information to JohnsonDiversey operating companies.
  - **International references:**
    - **MSDS code:** MSDS1853
    - **Version:** 4
    - **MSDS review date:** 04.07.2002
    - **Formulation code:** VC73-02
    - **Clearance code:** DL10363
  - **\* Revisions are indicated by an asterisk (\*) in the margin.**  
This update concerns a re-issue related to the introduction of 99/45/EC and

(Continued on page 6)

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(Continued from page 5)

2001/58/EC, and the 28th ATP of 76/768/EEC. In view of the large number of changes the individual revisions have not been indicated in this new version.

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