

Material Safety Data Sheet

According to 91/155 EC, 93/112/EC, 2001/58/EC

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Printing Date 12.07.2002

Reviewed on 09.07.2002

1 Product and company identification

- **Brandname:** PASCAL VA5
- **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:
7697-37-2 nitric acid >= 30 %
C, O; R 8-35
EINECS: 231-714-2
- **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**
Remove from source of exposure. Obtain medical attention if symptoms develop.
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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5 Fire fighting measures

- **Suitable extinguishing media**
CO₂, 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:**
Ensure good ventilation/exhaustion at the workplace.
- **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: 7697-37-2 nitric acid (>= 30%)
OES (Great Britain): Short-term value: 10 mg/m³, 4 ppm
Long-term value: 5.2 mg/m³, 2 ppm
- **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.
Do not inhale gases / fumes / aerosols.

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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:** Liquid**· Colour:**Uncoloured
Clear**· Odour:** Characteristic**· 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 ° C1.31 g/cm³**· Solubility in / Miscibility with****· Water:**

Fully miscible

· pH-value:

pH ≤ 2.0

10 Stability and reactivity**· Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· Dangerous reactions Reacts with alkali and metals.**· 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:

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- **skin contact:** Causes severe burns.
- **eye contact:** Causes severe or permanent damage.
- **inhalation:** Severe irritant, may cause pulmonary oedema.
- **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 14:** acids
- **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:** 2031
- **Packaging group:** II
- **Label** 8
- **Proper Shipping Name:** 2031 NITRIC ACID, SOLUTION
- **Maritime transport IMDG:**
- **IMDG Class:** 8
- **UN Number:** 2031
- **Label** 8
- **Packaging group:** II
- **EMS Number:** 8-03
- **Marine pollutant:** No

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- **Proper Shipping Name:** NITRIC ACID, SOLUTION
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 8
- **UN/ID Number:** 2031
- **Label** 8
- **Packaging group:** II
- **Proper Shipping Name:** NITRIC ACID, 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:** nitric acid
- **Risk phrases:** 35 Causes severe burns.
- **Safety phrases:**
 - 23 Do not breathe vapour.
 - 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.
 - 8 Contact with combustible material may cause fire.
 - **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:** MSDS2147
 - **Version:** 3
 - **MSDS review date:** 08.07.2002

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· **Formulation code:** VA05-02

· **Clearance code:** DL10646

· *** Revisions are indicated by an asterisk (*) in the margin.**

This update concerns a re-issue related to the introduction of 99/45/EC and 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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