

# EC safety data sheet

Trade name: VANDEX 4V

Status: 25.4.2010

Product no.: 322

Version: 1.0.0 / GB

Date of printing: 25.4.2010

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

### Identification of the substance or preparation

Trade name

**VANDEX 4V**

**Use of the substance/preparation**

Liquid accelerator for cement mortar

### Company/undertaking identification

**Address**

Vandex Isoliermittel-Gesellschaft m.b.H.

Industriestrasse 19-23

21493 Schwarzenbek

Telephone no. +49 4151 89 15-0

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**Information provided by / telephone**

Tel. +49 41 51 89 15 31 (Laboratory, Vandex Isoliermittel GmbH, Germany)

Tel. +41 32 626 36 36 (Technical Department, Vandex International AG, Roetistrasse 6, CH-4500 Solothurn, Switzerland)

**Emergency telephone**

GIZ Nord Poisons Centre, Germany

Phone: +49 551 19240

**Advice on Safety Data Sheet**

info@vandex.de (att. Laboratory)

info@vandex.com (att. Technical Department)

## 2.) Hazards identification

### Classification

C; R34 Causes burns.

### Hazard symbols

C Corrosive

### R phrases

34 Causes burns.

## 3.) Composition / information on ingredients

### Chemical characterization

Solution of the below mentioned components in water

### Hazardous ingredients

#### SODIUM HYDROXIDE

EC no. 215-185-5 Index no. 011-002-00-6 CAS no. 1310-73-2

Concentration > 0,5 < 1 %-b.w.

Classification C; R35

Hazard symbols C R phrases 35

#### GLYCEROL

EC no. 200-289-5 Index no. - CAS no. 56-81-5

Concentration > 1 < 5 %-b.w.

Classification -

Hazard symbols - R phrases -

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## Potassium carbonate

EC no.	209-529-3	Index no.	-	CAS no.	584-08-7
Concentration	> 10	< 25	%-b.w.		
Classification	Xi; R36/37/38				
Hazard symbols	Xi	R phrases	36/37/38		

## Aluminum-sodium-oxide

EC no.	234-391-6	Index no.	-	CAS no.	11138-49-1
Concentration	> 5	< 10	%-b.w.		
Classification	C; R35				
Hazard symbols	C	R phrases	35		

## 4.) First aid measures

### General information

In case of persisting adverse effects consult a physician. Change contaminated, saturated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position.

### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

### After skin contact

Wash off immediately with soap and water. Rinse with plenty of water. Seek medical attention.

### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an oculist.

### After ingestion

Do not induce vomiting. Turn a vomiting person lying on his back onto his side. Rinse out mouth and give plenty of water to drink. Seek medical attention.

## 5.) Fire-fighting measures

### Suitable extinguishing media

Extinguishing measures to suit surroundings.

### Extinguishing media that must not be used for safety reasons

Full water jet

### Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of combustion evolution of dangerous gases possible.

Fumes of metal oxides

Sodium oxide

### Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear full protective suit.

### Other information

Cool endangered containers with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains.

## 6.) Accidental release measures

### Personal precautions

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Use breathing apparatus if exposed to vapours/dust/aerosol.

### Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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## Methods for cleaning up/taking up

Use chemical neutralising agents. Pick up with absorbent material (e.g., sand, kieselguhr, acid binder, universal binder, sawdust). Send in suitable containers for recovery or disposal. Clean contaminated surfaces thoroughly.

## Additional informations (chapter 6)

Information regarding Waste Disposal, see chapter 13.

## 7.) Handling and storage

### Handling

#### Advice on safe handling

Avoid contact with skin and eyes. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Keep container tightly closed.

#### Advice on protection against fire and explosion

No special measures necessary.

### Storage

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original container. Provide alkali-resistant floor.

Inappropriate material                      aluminium

#### Advice on storage assembly

Do not store together with foodstuffs.  
substances to be avoided, pls. See chapter 10.

#### Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

## 8.) Exposure controls / personal protection

### Exposure limit values

#### SODIUM HYDROXIDE

CAS no.                                      1310-73-2

EC no.                                         215-185-5

#### Occupational Exposure Standards (OESs) / EH40

Sodium hydroxide

STEL                                         2                      mg/m<sup>3</sup>

#### GLYCEROL

CAS no.                                      56-81-5

EC no.                                         200-289-5

#### Occupational Exposure Standards (OESs) / EH40

Glycerol mist

TWA                                         10                    mg/m<sup>3</sup>

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in

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any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

## Eye protection

Tightly fitting safety glasses (EN 166)

## Skin protection

Clothing as usual in the chemical industry.

## General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale gases/vapours/aerosols.

## 9.) Physical and chemical properties

### General information

Form	liquid
Colour	light yellow
Odour	odourless

### Important health, safety and environmental information

#### Changes in physical state

Type	Boiling point		
Value	appr.	100	°C

#### Flash point

Remarks not applicable

#### Density

Value	1,25	kg/l
Reference temperature	20	°C

#### Solubility in water

Remarks Completely miscible

#### pH value

Value	appr.	13
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## 10.) Stability and reactivity

### Conditions to avoid

None, if handled according to order.

### Materials to avoid

Acid anhydrides; acid halogenide; Acids; Halogenated hydrocarbons; Light metals; Ammonium compounds; zinc, zinc alloys, aluminium

### Hazardous decomposition products

No hazardous decomposition products known.

### Thermal decomposition

Remarks No decomposition if used as prescribed.

## 11.) Toxicological information

### Sensitisation

Remarks No sensitizing effect are known.

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## Experience in practice

Danger of acute eye damage.  
Irritating effects on the skin and mucous membrane.

## Other information (chapter 11.)

Product specific toxicological data are not known.  
The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

## 12.) Ecological information

### Other adverse effects

Ecological data are not available.  
Do not discharge product unmonitored into the environment.  
Adverse effect due to pH-shifting.  
Harmful to aquatic organisms.

## 13.) Disposal considerations

### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## 14.) Transport information

### Land transport ADR/RID

Class	8	Classification code	C5
Packaging group	III		
Hazard id. no.	80		
Label	8		
UN number	1819		
Technical name	Sodium aluminate solution		

### Marine transport IMDG

Class	8		
Packaging group	III		
UN number	1819		
Proper shipping name	Sodium aluminate solution		
EmS	F-A,S-B		
Label	8		

### Air transport ICAO/IATA

Class	8		
Packaging group	III		
UN number	1819		
Proper shipping name	Sodium aluminate solution		
Label	8		

## 15.) Regulatory information

### Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

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## Hazard symbols

C Corrosive

## Hazardous component(s) to be indicated on label, contains:

Sodium hydroxide  
Aluminum-sodium-oxide

## R phrases

34 Causes burns.

## S phrases

24/25 Avoid contact with skin and eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
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

### Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.  
Regulation (EC) No 1907/2006 (REACH) as amended in each case.  
EC Directives 2000/39/EC, 2006/15/EC as amended in each case.  
National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Relevant R-phrases (chapter 3):

35 Causes severe burns.  
36/37/38 Irritating to eyes, respiratory system and skin.

### Department issuing safety data sheet

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.