

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.08.2013

Version number 1

Revision: 22.08.2013

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name: 818 Monel**
- **Article number: 818**
- **Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Application of the substance / preparation** *Floor maintenance*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Forbo Flooring B.V.  
Industrieweg 12  
NL-1566 JP Assendelft Holland  
Tel. + 31 75 6477477 Fax +31 75 6477700  
E-mailaddress: info@forbo.com*
- *Website: www.forbo-flooring.com*
- **Emergency telephone number:** *Tel. +31 75-6477477*

### 2 Hazards identification



- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** *Not applicable.*
- **Information concerning particular hazards for human and environment:**  
*The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.*
- **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*
- **Label elements**
- **Labelling according to EU guidelines:**  
*Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** *Solution of soap*

· **Dangerous components:**

CAS: 1310-58-3  
EINECS: 215-181-3

potassium hydroxide  
 C R35;  Xn R22

>1-5%

 Acute Tox. 3, H301;  Met. Corr. 1, H290; Skin Corr. 1A, H314

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Fatty alcohol polyglycol ether 6-15 EO

&gt;1-5%

☒ Xn R22; ☒ Xi R41

☒ Eye Dam. 1, H318; ☒ Acute Tox. 4, H302

### · Regulation (EC) No 648/2004 on detergents / Labelling for contents

soap, aliphatic hydrocarbons, EDTA and salts thereof, perfumes

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

### · Description of first aid measures

· **General information:** No special measures required.

· **After skin contact:** Wash with soap and water. Remove contaminated clothing.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a physician.

· **After swallowing:** Rinse mouth with water and consult physician immediately.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

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

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

· **Environmental precautions:** Dilute with plenty of water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· **Handling:**

· **Precautions for safe handling** No special measures required.

· **Information about fire - and explosion protection:** No special measures required.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Store in a cool, but frost-proof location.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**  
*Recommended storage temperature between 15 and 25 °C.*
- **Specific end use(s)** *No further relevant information available.*

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **Control parameters**

· <b>Ingredients with limit values that require monitoring at the workplace:</b>
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<b>1310-58-3 potassium hydroxide</b>
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WEL Short-term value: 2 mg/m <sup>3</sup>
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- **Additional information:** *The lists valid during manufacture were used as basis.*
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
*The usual precautionary measures are to be adhered to when handling chemicals.*
- **Respiratory protection:** *Not required.*
- **Protection of hands:**  
*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*  
*Selection of the glove material is dependant on the penetration times, rates of diffusion and degradation.*
- **Material of gloves**  
*The selection of suitable gloves does not only depend on the material, but also on further aspects of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*
- **Penetration time of glove material**  
*The exact break through time has to be established by the manufacturer of the protective gloves and has to be observed.*
- **For prolonged contact gloves made of the following materials are suitable:** *Butyl rubber or PVC*
- **Eye protection:** *Tightly sealed goggles by risk of splashing.*

## 9 Physical and chemical properties

· <b>Information on basic physical and chemical properties</b>
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· <b>General Information</b>
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· <b>Appearance:</b>
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Form:	Fluid
Colour:	Yellowish
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value at 20 °C:	10
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· <b>Change in condition</b>
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Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C

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· Flash point:	<i>Not applicable.</i>
· Flammability (solid, gaseous):	<i>Not applicable.</i>
· Ignition temperature:	
Decomposition temperature:	<i>Not determined.</i>
· Self-igniting:	<i>Product is not self-igniting.</i>
· Danger of explosion:	<i>Product does not present an explosion hazard.</i>
· Explosion limits:	
Lower:	<i>Not determined.</i>
Upper:	<i>Not determined.</i>
· Vapour pressure at 20 °C:	<i>23 hPa</i>
· Density at 20 °C:	<i>1.02 g/cm<sup>3</sup></i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>
· Evaporation rate	<i>Not determined.</i>
· Solubility in / Miscibility with water:	<i>Fully miscible.</i>
· Partition coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity:	
Dynamic:	<i>Not determined.</i>
Kinematic at 20 °C:	<i>90 s (ISO 6 mm)</i>
· Solvent content:	
Organic solvents:	<i>0.9 %</i>
· Other information	<i>No further relevant information available.</i>

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
*No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**1310-58-3 potassium hydroxide**

Oral LD50 273 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** *No irritant effect.*
- **on the eye:** *No irritating effect.*

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- **Sensitization:** *No sensitizing effects known.*

- **Additional toxicological information:**

*The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.*

*When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.*

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** *No further relevant information available.*

- **Persistence and degradability** *No further relevant information available.*

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** *No further relevant information available.*

- **Mobility in soil** *No further relevant information available.*

- **Additional ecological information:**

- **General notes:**

*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

- **Results of PBT and vPvB assessment**

- **PBT:** *Not applicable.*

- **vPvB:** *Not applicable.*

- **Other adverse effects** *No further relevant information available.*

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation** *Smaller quantities can be disposed of with household waste.*

- **Uncleaned packaging:**

- **Recommendation:** *Disposal must be made according to official regulations.*

- **Recommended cleansing agents:** *Warm water, if necessary together with cleansing agents.*

## 14 Transport information

- **UN-Number**

- **ADR, ADN, IMDG, IATA** *Void*

- **UN proper shipping name**

- **ADR, ADN, IMDG, IATA** *Void*

- **Transport hazard class(es)**

- **ADR, ADN, IMDG, IATA**

- **Class** *Void*

- **Packing group**

- **ADR, IMDG, IATA** *Void*

- **Environmental hazards:**

- **Marine pollutant:** *No*

- **Special precautions for user** *Not applicable.*

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- |  |   |
|--|---|
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | <i>Not applicable.</i>  |
| <b>· Transport/Additional information:</b>                                       | <i>Not classified as hazardous under transport regulations.</i> |
| <b>· UN "Model Regulation":</b>  | -   |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
Wasser	79.4
NK	1.5

- **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
  - **Other regulations, limitations and prohibitive regulations**
- |  |
|--|
| <b>· Substances of very high concern (SVHC) according to REACH, Article 57</b> |
| <i>None of the ingredients is listed.</i>                                      |
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

*H290 May be corrosive to metals.*

*H301 Toxic if swallowed.*

*H302 Harmful if swallowed.*

*H314 Causes severe skin burns and eye damage.*

*H318 Causes serious eye damage.*

*R22 Harmful if swallowed.*

*R35 Causes severe burns.*

*R41 Risk of serious damage to eyes.*

- **Department issuing MSDS:** *Forbo Flooring Marketing*

- **Contact:** *Productmanagement*

- **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*