

F 42 NORA

Date 6.4.2010

Previous date: 4.12.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the article****1.1.1 Commercial Product Name**

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1.1.2 Product code

80266,80217,80207,60204,60205,60206,60235

1.2 Use of the Substance/Preparation**1.2.1 Expressed in writing**

A strongly alkaline washing agent for CIP cleaning in the food industry.

1.3 Identification of the substance/preparation and the company/undertaking**1.3.1 Supplier**

Farmos Oy

1.3.2 Contact information**Street address**

Tengströminkatu 6

Postcode and post office

20360 Turku

Finland

P.O.Box

P.O BOX 157

Postcode and post office

20101 TURKU

Finland

Telephone

+358-104-307-110

Telefax

+358-104-307-720

Email

asiakaspalvelu@farmos.com

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

HUS / MyrkytystietokeskusPL 340, 00029 HUS, Suomi

09-4711 direct number +358 9 471 977

2. HAZARDS IDENTIFICATION

The product is classified as corrosive.C;R35

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Hazardous components**

3.1.1 CAS/EINECS and reg. number	3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
1310-73-2	sodium hydroxide	>30%	C; R35
1310-58-3	Potassium hydroxide	5-15%	C; R35

4. FIRST AID MEASURES**4.1 Additional advice**

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4.2 Inhalation

Consult a physician. Move to fresh air.

4.3 Skin contact

Consult a physician. Take off all contaminated clothing immediately. Wash off immediately with plenty of water.

4.4 Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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4.5 Ingestion

Consult a physician. Do not induce vomiting. Rinse mouth. Drink plenty of water.

5. FIRE-FIGHTING MEASURES**5.1 Suitable extinguishing media**

The product in itself is incombustible.

5.2 Extinguishing media which must not be used for safety reasons

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5.3 Specific hazards

When the product reacts with metal, be freed hydrogen, which can make explosive mixture with air.

5.4 Special protective equipment for firefighters

Protective clothing for chemical.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions**

Use personal protective equipment.

6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains.

6.3 Methods for cleaning up

Neutralise with acid. Small amounts: Flush with plenty of water.

7. HANDLING AND STORAGE**7.1 Handling**

Handle and open container with care. Product resists ignition and does not promote flame spread.

7.2 Storage

Keep at temperatures above +10°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Exposure Limit Values****8.1.1 Threshold limits**

sodium hydroxide 2 mg/m³ (8 h)

Potassium hydroxide 2 mg/m³ (8 h)

8.2 Exposure controls**8.2.1 Occupational exposure controls**

Avoid contact with the skin and the eyes.

8.2.1.1 Respiratory protection

Half mask with a particle filter P2 (European Norm EN 143 = former DIN 3181)

8.2.1.2 Hand protection

Neoprene gloves nitrile rubber PVC or other plastic material gloves

8.2.1.3 Eye protection

face-shield Eye wash bottle with pure water

8.2.1.4 Skin and body protection

Chemical resistant apron, protective suit

8.2.2 Environmental exposure controls

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	General Information (appearance, odour) clear liquid	
9.2	Important Health Safety and Environmental Information	
9.2.1	pH	14
9.2.2	Boiling point/range	-
9.2.3	Flash point	-
9.2.5	Explosive properties	
9.2.5.1	Lower explosion limit	-
9.2.5.2	Upper explosion limit	-
9.2.7	Vapour pressure	-
9.2.8	Relative density	1,48 kg/dm ³
9.2.9	Solubility	
9.2.9.1	Water solubility	totally soluble
9.2.9.2	Fat solubility (solvent - oil to be specified)	-
9.2.10	Partition coefficient (n-octanol/water)	-

10. STABILITY AND REACTIVITY

10.1	Conditions to avoid Exothermic reaction with strong acids
10.2	Materials to avoid light metals
10.3	Hazardous decomposition products -

11. TOXICOLOGICAL INFORMATION

11.1	Acute toxicity LD50/oral/rat= 365 mg/kg potassium hydroxide 365 mg/kg kaliumhydroksidi >> LDLo/oral/rabbit/500 mg/kg, (10% solution) sodium hydroxide
11.2	Primary irritation Alkaline solution causes necrosis to tissue.
11.3	Sensitisation -
11.5	Human experience -

12. ECOLOGICAL INFORMATION

12.1	Ecotoxicity
12.1.1	Aquatic toxicity LC50/48h/daphnia = 30-100 mg/l sodium hydroxide LC50= 80-85 mg/l Gambusia affinis, 95h, potassium hydroxide
12.1.2	Toxicity to other organisms -
12.2	Mobility No data is available on the product itself.
12.3	Persistence and degradability

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- 12.3.1 Biodegradation**
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- 12.3.2 Chemical degradation**
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- 12.4 Bioaccumulative potential**
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13. DISPOSAL CONSIDERATIONS

Taking into account local regulations the product may be disposed of as waste water after neutralisation.

14. TRANSPORT INFORMATION

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|---------------|---------------------------------|---------------------------|
| 14.1 | UN-No | UN1824 |
| 14.2 | Packaging group | II |
| 14.3 | Land transport | |
| 14.3.1 | Class | 8,II |
| 14.3.2 | Risk No. | 80 |
| 14.3.3 | Description of the goods | NATRIUMHYDROKSIDILIUOS |
| 14.3.4 | Further Information | K06 |
| 14.4 | Sea transport | |
| 14.4.1 | IMDG | IMO 8 |
| 14.4.2 | Proper shipping name | SODIUM HYDROXIDE SOLUTION |
| | Packaging group | PG II |
| | Marine pollutant | - |
| | IMO-Labels | Corrosive 8 |
| 14.4.3 | Further Information | EmS: - |

15. REGULATORY INFORMATION

- 15.1 Information on the warning label**
- 15.1.1 Letter code of the warning symbol and indications of danger for the preparation**
C Corrosive
- 15.1.2 Names of the ingredients given on the warning label**
sodium hydroxide
Potassium hydroxide
- 15.1.3 R phrase(s)**
R35 Causes severe burns.
- 15.1.4 S phrase(s)**
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

16. OTHER INFORMATION

- 16.1 Full text of R-phrases referred to under sections 2 and 3**
R35 Causes severe burns.
- 16.2 Training advice**
Look at label or leaflet.

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- 16.5 Literary reference**
This MSDS is based on currently valid laws and regulations
- 16.6 Additions, Deletions, Revisions**
Safety data sheet updated.