

F 47 TARMO

Date 19.4.2011

Previous date: 15.4.2011

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

F 47 TARMO

1.1.2 Product code

80252,80256,80257,60207

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 Company/undertaking identification**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**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/EC and
Reg.number**

1310-73-2

EINECS

215-185-5

3.1.2**Chemical name of the
substance**

sodium hydroxide

3.1.3**Concentration Classification**

>30%

3.1.4**Concentration Classification**

C; R35

Skin Corr. 1A, H314

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.

F 47 TARMO

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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. Used as structural materials plastic a.o. PE and PVC, titanium and some reinforced plastics endure the product.

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 (15 min)

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, amber 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	1,38 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 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 natriumhydroksidi
12.1.2	Toxicity to other organisms -
12.2	Mobility No data is available on the product itself.
12.3	Persistence and degradability
12.3.1	Biodegradation -

F 47 TARMO

Date 19.4.2011

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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

14.1	UN-No	UN1824
14.2	Packaging group	II
14.3	Land transport	
14.3.1	Class	8,II
14.3.3	Description of the goods	NATRIUMHYDROKSIDILIUOS

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	
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.
	S36/37/39	Wear suitable protective clothing, 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	List of relevant R phrases	
	R35	Causes severe burns.
16.2	Training advice	
	Look at label or leaflet.	
16.5	Literary reference	
	Sax, Lewis: "Dangerous properties of Industrial materials" Safety Data Sheets of rawmaterials. This MSDS is based on currently valid laws and regulations	
16.6	Additions, Deletions, Revisions	
	Updated according to Regulation (EC) N:o 1907/2006 of the European Parliament and of the Council (REACH)	