

F 261 KLORIITTI-FORTE

Date 31.5.2011

Previous date: 14.2.2011

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 261 KLORIITTI-FORTE
- 1.1.2 Product code**
80655,80656,80658,80209,60247
- 1.2 Use of the Substance/Preparation**
- 1.2.1 Expressed in writing**
A strongly alkaline disinfectant.
- 1.3 Company/undertaking identification**
- 1.3.1 Supplier**
KiiltoClean Oy
- 1.3.2 Contact information**
- Street address** Tengströminkatu 6
Postcode and post office 20360 Turku, Finland
P.O.Box PL 157
Postcode and post office FI-20101 Turku, Finland
Telephone +358 (0)207 710 400
Telefax +358 (0)207 710 402
Email asiakaspalvelu@kiiltoclean.fi
- 1.4 Emergency telephone**
- 1.4.1 Telephone number, name and address**
HUS / Myrkytystietokeskus Box 340, 00029 HUS, Finland
+358-9-4711 direct number +358 9 471 977

2. HAZARDS IDENTIFICATION

Corrosive Contact with acids liberates toxic gas. Dangerous for the environment Very toxic to aquatic organisms. N; R50, Xi;R31-36/38

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Hazardous components	3.1.1 CAS/EC and Reg.number	EINECS	3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
	1310-73-2	215-185-5	sodium hydroxide	0,5-2%	C; R35 Skin Corr. 1A, H314
	7681-52-9	231-668-3	Sodium hypochlorite solution, activ chlorine matter	<10%	C; R34;R31;N; R50 Skin Corr. 1B, H314; Aquatic Acute 1, H400

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.
- 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**
-
- 5.3 Specific hazards**
Fire releases toxic chlorine gases.
- 5.4 Special protective equipment for firefighters**
Overalls for chemicals. Aqualung or comparable breathing apparatus.

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**
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**
Do not store near acids. Keep tightly closed in a dry and cool place. Keep at temperatures above +3 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Exposure Limit Values**
- 8.1.1 Threshold limits**
- | | |
|------------------|------------------------------|
| sodium hydroxide | 2 mg/m ³ (15 min) |
| kattoarvo | |
- 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 (BS EN 143)
- 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

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8.2.1.4 Skin and body protection
chemical resistant apron, protective suit

8.2.2 Environmental exposure controls
Should not be released into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information (appearance, odour)
yellow clear, slight chlorine liquid

9.2 Important Health Safety and Environmental Information

9.2.1 pH	13,5
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	1,20 kg/dm ³
9.2.9 Solubility	
9.2.9.1 Water solubility	completely 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**
Burning produces obnoxious and toxic fumes. Temperatures above +20 °C.
- 10.2 Materials to avoid**
light metals
- 10.3 Hazardous decomposition products**
May develop chlorine if mixed with acidic solutions.

11. TOXICOLOGICAL INFORMATION

- 11.1 Acute toxicity**
LD50/oral/mouse=5800 mg/kg sodium hypochlorite
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**
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12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity**
- 12.1.1 Aquatic toxicity**
LC50/48h/daphnia = 30-100 mg/l >>sodium hydroxide
LC50/96h/Sheephead minnows =5,9 mg/l , LC50/96h/rainbow trout =0,07 mg/l(Cl₂) sodium hypochlorite

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12.1.2 Toxicity to other organisms

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12.2 Mobility

No data is available on the product itself.

12.3 Persistence and degradability**12.3.1 Biodegradation**

-

12.3.2 Chemical degradation

-

12.4 Bioaccumulative potential

-

13. DISPOSAL CONSIDERATIONS

Small amounts should be diluted with plenty of water.

14. TRANSPORT INFORMATION

14.1	UN-No	UN1791
14.2	Packaging group	III
14.3	Land transport	
14.3.1	Class	8,III
14.3.2	Risk No.	80
14.3.3	Description of the goods	HYPOKLORIITTIUOS (5-16%)
14.3.4	Further Information	K01
14.4	Sea transport	
14.4.1	IMDG	IMO 8
14.4.2	Proper shipping name	HYPOCHLORITE SOLUTION
	Packaging group	PG III
	Marine pollutant	-
	IMO-Labels	Corrosive substances 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
N	Dangerous for the environment

15.1.3 R phrase(s)

R31	Contact with acids liberates toxic gas.
R34	Causes burns.
R50	Very toxic to aquatic organisms.

15.1.4 S phrase(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of [water].
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 the label where possible).
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

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16. OTHER INFORMATION**16.1 List of relevant R phrases**

R31 Contact with acids liberates toxic gas.
R34 Causes burns.
R35 Causes severe burns.
R50 Very toxic to aquatic organisms.

16.2 Training advice

Look at label or leaflet.

16.5 Literary reference

Safety Data Sheets of rawmaterials.,
This MSDS is based on currently valid laws and regulations

16.6 Additions, Deletions, Revisions

Classification information has been changed.