

**SAFETY DATA SHEET****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****1.1 Identification of the substance/preparation****Product name**

F 268 AIROL S

**Product code**

60063,60068,60238

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

For cold disinfection. For bleaching purposes in laundries.

**1.3 Company/Undertaking Identification****1.3.1 Manufacturer, importer, supplier**

FARMOS Oy

**1.3.2 Contact information****Street address**

Tengströminkatu 6

**Postcode and post office**

20360 TURKU

**Post-office box**

PL 157

**Postcode and post office**

FI-20101 TURKU

**Telephone**

0204 877 110

**Telefax**

0204 877 720

**Business ID**

2002871-3

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

09-4711

direct number +358 9 471 977

HUS / Myrkytystietokeskus

PL 340, 00029 HUS, Suomi

**2. COMPOSITION/INFORMATION ON INGREDIENTS****2.1 Hazardous components**

2.1.1 CAS number or other code	2.1.2 Chemical name of the substance	2.1.3 Concentration	2.1.4 Warning symbol, R phrases and other information
79-21-0	Peracetic acid	5%	R10;O; R7;Xn; R20/21/22;C; R35;N; R50
7722-84-1	Hydrogen peroxidesolution...%	23%	R5;O; R8;C; R35;Xn; R20/22

**3. HAZARDS IDENTIFICATION**

The product is classified as corrosive. ja oxidizingC,O;R8,35

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

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**4.2 Inhalation**

Product name: **F 268 AIROL S**

Date 1.1.2006

Previous date

2/5

Move to fresh air.

**4.3 Skin contact**

Wash off immediately with plenty of water for at least 15 minutes.

**4.4 Eye contact**

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

**4.5 Ingestion**

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

**5. FIRE-FIGHTING MEASURES**

**5.1 Suitable extinguishing media**

water

**5.2 Extinguishing media which must not be used for safety reasons**

Chemical fire extinction material as they accelerate the decomposition of hydrogen peroxide resulting in the releasing of oxygen.

**5.3 Special exposure hazards in a fire**

The released acid fumes may cause damages in the respiratory organs.

**5.4 Special protective equipment for fire-fighters**

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**5.5 Specific methods**

The released oxygen keeps up the combustion. Splashes may ignite organic material.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions**

Use personal protective equipment.

**6.2 Environmental precautions**

Should not be released into the environment. Avoid subsoil penetration.

**6.3 Methods for cleaning up**

Small amounts Flush into sewer with plenty of water.

**7. HANDLING AND STORAGE**

**7.1 Handling**

Do not smoke. Keep away from combustible material.

**7.2 Storage**

Keep tightly closed in a dry, cool and well-ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Exposure Limit Values**

**8.1.1 Exposure limit(s)**

CAS-No.	Chemical name of the substance	.	.
7722-84-1	Hydrogen peroxide solution...%	1 ppm (8 h)	3 ppm (15 min)
		1,4 mg/m <sup>3</sup> (8 h)	4,2 mg/m <sup>3</sup> (15 min)
79-21-0	Peracetic acid	0,5 ppm (8 h)	.
		0,4 mg/m <sup>3</sup> (8 h)	.

**8.1.2 Other information on limit values**

Product name: **F 268 AIROL S**

Date 1.1.2006

Previous date

3/5

The maximum concentrate to which a healthy person can be exposed for 30 minutes without getting any irrecoverable damages to the health or any injuries which hinder departure (IDLH): 105 mg/m<sup>3</sup> (75 ppm)/30 min.

## 8.2 Exposure controls

### 8.2.1 Occupational exposure controls

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#### 8.2.1.1 Respiratory protection

Breathing apparatus needed only when aerosol or mist is formed.

#### 8.2.1.2 Hand protection

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

flame retardant protective clothing

### 8.2.2 Environmental exposure controls

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General Information (appearance, odour)

clear, liquid with a stinging smell

### 9.2 Important Health Safety and Environmental Information

9.2.1	pH	1
9.2.2	Boiling point/range	-
9.2.3	Flash point	>100 °C
9.2.5	Explosive properties	
9.2.5.1	Lower explosion limit	-
9.2.5.2	Upper explosion limit	-
9.2.6	Oxidising properties	Corrosive oxidant.
9.2.7	Vapour pressure	1,93 kPa (25°C)
9.2.8	Relative density	1,10 kg/dm <sup>3</sup>
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

Decomposes on exposure to light. Keep the product away from sources of heat.

### 10.2 Materials to avoid

The product is incompatible with the following metals: brass, bronze, chrome, copper, iron, manganese, nickel, zinc, vanadium, cobalt and other catalytic metals or their salts. Strong acids and bases, amines, reducing products and polymerizing substances cause decomposition of the product.

### 10.3 Hazardous decomposition products

No hazardous decomposition products.

## 11. TOXICOLOGICAL INFORMATION

Product name: **F 268 AIROL S**

Date 1.1.2006

Previous date

4/5

**11.1 Acute toxicity**

LD50/oral/rat = 690 mg/ kg ( 40 % peracetic acid)

**11.2 Irritation and corrosion**

Irritating to eyes, respiratory system and skin.

**11.3 Sensitisation**

Renewed aspiration may cause chronic bronchitis and pulmonary tuberculosis.

**11.5 Human experience**

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## 12. ECOLOGICAL INFORMATION

**12.1 Ecotoxicity effects**

**12.1.1 Aquatic toxicity**

100% vetyperoksidi :EC50/48h/daphnia =7,7 mg/l

LC50/96h/goldfish =16-37 mg/l

**12.1.2 Toxicity to other organisms**

LD50=1200 mg/kg (oral,rat) 35% hydrogen peroxid

**12.2 Mobility**

Travels like water, dilutes and decomposes in natural water surroundings.

**12.3 Persistence and degradability**

**12.3.1 Biological degradability**

The product decomposes biologically into water, carbon dioxide and oxygen.

**12.3.2 Chemical degradation**

Only small amounts of several metals and other impurities cause reduction of the product into vinegar and water.

**12.4 Bioaccumulative potential**

No cumulation in the food chain.

## 13. DISPOSAL CONSIDERATIONS

To be diluted with plenty of water, whereafter to be neutralized with bases.

## 14. TRANSPORT INFORMATION

<b>14.1 UN-No</b>	UN3149
<b>14.2 Packing group</b>	II
<b>14.3 Land transport</b>	
<b>14.3.1 ADR/RID</b>	5.1,II
<b>14.3.2 Risk code</b>	58
<b>14.3.3 Description of the goods</b>	VETYPEROKSIDIN JA PERETIKKAHAPON SEOS, STABILOITUNA
<b>14.3.4 Further Information</b>	K09
<b>14.4 Sea transport</b>	
<b>14.4.1 IMDG</b>	IMO 5.1
<b>14.4.2 Proper technical name</b>	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED
<b>14.4.2.2 EmS</b>	-
<b>14.4.2.3 Packing group</b>	PG II
<b>14.4.2.4 Marine pollutant</b>	-
<b>14.4.2.6 IMO-Labels</b>	Oxidizing 5.1+ Corrosive 8
<b>14.4.3 Further Information</b>	Cefic 51G07

**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

O Oxidising

**15.1.2 Names of the ingredients given on the warning label**

Hydrogen peroxide solution.23%

Peracetic acid 5 %

**15.1.3 R-phrase(s)**

R34 Causes burns.

R7 May cause fire.

R22 Harmful if swallowed.

**15.1.4 S-phrase(s)**

S3 Keep in a cool place.

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

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).

S50 Do not mix with alkaline substances, organic material, reducing agents

**16. OTHER INFORMATION****16.1 Text of R phrases mentioned in Section 2**

R5 Heating may cause an explosion.

R7 May cause fire.

R8 Contact with combustible material may cause fire.

R10 Flammable.

R20/22 Harmful by inhalation and if swallowed.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R35 Causes severe burns.

R50 Very toxic to aquatic organisms.

**16.2 Training advice**

Look at label or leaflet.

**16.4 Further Information**

Registered office and domicile: Farnos Oy., Lasikuja 2, FI-02780 ESPOO

**16.5 Literary reference**

Sax, Lewis: "Dangerous properties of Industrial materials"

Safety Data Sheets of raw materials.

STMa509/2005

Exposure values 2005

Directive 277/2002