



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Floracin NF

Print date: 14.04.2014

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name: Floracin NF

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Disinfectant

1.3. Details of the supplier of the safety data sheet

Company name: FAVODENT Karl Huber GmbH
Street: Greschbachstr. 7
Place: D-76229 Karlsruhe
Telephone: +49 (0) 721 626 86-0
Telefax: +49 (0) 721 626 86-66
e-mail: info@favodent.com
Contact person: Apoth. Wolf Telephone: +49 (0) 721 626 86-0
e-mail: info@favodent.com
Internet: www.favodent.com
Responsible Department: Zentrale

1.4. Emergency telephone number:

+49 (0) 721 626 86-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: C - Corrosive

R phrases:

Causes burns.

GHS classification

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

2.2. Label elements

Hazardous components which must be listed on the label

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Didecylmethylpolyoxyethylammoniumpropionat

2-aminoethanol, ethanolamine

Signal word: Danger

Pictograms: GHS05



Hazard statements

H314

Causes severe skin burns and eye damage.



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Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to

2.3. Other hazards

PBT: not applicable. vPvB: not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
219-145-8	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2,5-10 %
2372-82-9	C - Corrosive, Xn - Harmful, N - Dangerous for the environment R22-35-50 Acute Tox. 4, Skin Corr. 1A, Aquatic Acute 1; H302 H314 H400	
	Didecylmethylpolyoxyethylammoniumpropionat	2,5-10 %
94667-33-1	C - Corrosive, Xn - Harmful, N - Dangerous for the environment R22-34-50 Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1; H302 H314 H400	
205-483-3	2-aminoethanol, ethanolamine	2,5 %
141-43-5	C - Corrosive, Xn - Harmful R20/21/22-34	
603-030-00-8	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H332 H312 H302 H314	
203-473-3	ethanediol, ethylene glycol	2,5 %
107-21-1	Xn - Harmful R22	
603-027-00-1	Acute Tox. 4; H302	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of inhalation of product / fumes, affected person should be moved into fresh air and kept still. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.



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After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

No further Information available.

5.3. Advice for firefighters

Special protective equipment for firefighters: Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Residues of fire and contaminated water have to be disposed according to the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8. Provide adequate ventilation. Personal protection equipment: see section 8 Keep away from unprotected people. Do not touch or tread spilled product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Spilled product must not leak into the ground. Release of big amounts may be harmful to the environment. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Use only noncombustible absorbents. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

See chapter 8. Wear personal protection equipment (see chapter 8). Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Further information on handling

Empty containers may contain hazardous residues of the product.

7.2. Conditions for safe storage, including any incompatibilities



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Requirements for storage rooms and vessels

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

Advice on storage compatibility

Keep away from:
Food and feedingstuffs
oxidizing agents

Further information on storage conditions

Keep away from:
Frost
Heat
Moisture

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	WEL
		3	7.6		STEL (15 min)	WEL
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Not necessary

Protective and hygiene measures

Only wear fitting, comfortable and clean protective clothing.
Avoid contact with skin, eyes and clothes.
Wash hands and face before breaks and after work and take a shower if necessary.

Eye/face protection

Suitable eye protection:
Tightly sealed goggles.

Hand protection

Suitable gloves type:
NBR (Nitrile rubber) DIN EN 374,
Butyl caoutchouc (butyl rubber) DIN EN 374
NR (natural rubber, natural latex)

Skin protection

Protective clothing.

Respiratory protection

Not necessary

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: clear
Odour: characteristic like amines

Test method



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pH-Value (at 20 °C): >11

Changes in the physical state

Initial boiling point and boiling range: 100 °C

Flash point: >100 °C

Explosive properties

not explosive.

Lower explosion limits: not determined

Upper explosion limits: not determined

Vapour pressure:
(at 20 °C) 23 hPa

Density (at 20 °C): 1,01 g/cm³

Water solubility: completely miscible

Partition coefficient: Not determined.

Viscosity / dynamic: Not determined.

Viscosity / kinematic: Not determined.

Vapour density: Not determined.

Evaporation rate: Not determined.

Solvent content: Organic solvents: 2,5 %
Water: 81,7 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

No dangerous reactions by handling and stock-keeping according to the guidelines.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No further Information available.

10.5. Incompatible materials

No further Information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects



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Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine				
	oral	ATE	500 mg/kg		
94667-33-1	Didecylmethylpolyoxyethylammoniumpropionat				
	oral	ATE	500 mg/kg		
141-43-5	2-aminoethanol, ethanolamine				
	oral	LD50	1515 mg/kg	Rat	
	dermal	LD50	1025 mg/kg	Rabbit	IUCLID
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
107-21-1	ethanediol, ethylene glycol				
	oral	ATE	500 mg/kg		
	dermal	LD50 mg/kg	10600	Rabbit	GESTIS

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
141-43-5	2-aminoethanol, ethanolamine					
	Acute fish toxicity	LC50	150 mg/l	96 h	Onchorhynchus mykiss	IUCLID
	Acute algae toxicity	ErC50	22 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	65 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

No further Information available.

12.3. Bioaccumulative potential

No further Information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
141-43-5	2-aminoethanol, ethanolamine	-1,91 (25°C)
107-21-1	ethanediol, ethylene glycol	-1,36

12.4. Mobility in soil

No further Information available.

12.5. Results of PBT and vPvB assessment

PBT: not applicable. vPvB: not applicable

12.6. Other adverse effects

No further Information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.



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Containers emptied of residues have to be recycled. Containers emptied of residues may still contain hazardous material. Containers not emptied should be removed harmlessly according to the actual disposal guidelines.

Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Waste disposal number of used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1903
14.2. UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Didecylmethylpolyoxyethylammoniumpropionat)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Other applicable information (land transport)

E1
E2

Inland waterways transport (ADN)

14.1. UN number:	UN 1903
14.2. UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Didecylmethylpolyoxyethylammoniumpropionat)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L

Other applicable information (inland waterways transport)

E2
E1

Marine transport (IMDG)

14.1. UN number:	UN 1903
14.2. UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Didecylmethylpolyoxyethylammoniumpropionat)
14.3. Transport hazard class(es):	8



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14.4. Packing group: III
Hazard label: 8
Special Provisions: 223, 274
Limited quantity: 5 L
EmS: F-A, S-B

Other applicable information (marine transport)

E1
E2

Air transport (ICAO)

14.1. UN number: UN 1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Didecylmethylpolyoxyethylammoniumpropionat)

14.3. Transport hazard class(es): 8

14.4. Packing group: III
Hazard label: 8
Special Provisions: A3 A803
Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E1
Passenger-LQ: Y344
E2
Passenger-LQ: Y340
Passenger-LQ: Y342
Passenger-LQ: Y841

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International



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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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Full text of R phrases referred to under Sections 2 and 3

- | | |
|----------|---|
| 20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| 22 | Harmful if swallowed. |
| 34 | Causes burns. |
| 35 | Causes severe burns. |
| 50 | Very toxic to aquatic organisms. |

Full text of H statements referred to under Sections 2 and 3

- | | |
|------|--|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H332 | Harmful if inhaled. |
| H400 | Very toxic to aquatic life. |

Further Information

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product. It is not to be considered as a guarantee of the product's properties.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)