

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

1.1. Product identifier

Trade name	Marisol FC
Article No.	24-4028
UFI code	8TH3-P0QA-Y00C-NT18

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

Product type	Alkaline cleaning agent.
Relevant identified uses	Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Supplier	AB DFS
Street address	Fiskebäcks Hamn 7 426 58 Västra Frölunda Sweden
Telephone	031-29 14 35
Email	order@dfs-ab.se
Web site	www.dfs-ab.se

1.4. Emergency telephone number

Emergency phone number	112
Available outside office hours	Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification	Serious eye damage, hazard category 1 Corrosive to metals, hazard category 1 Skin corrosion, hazard category 1
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Hazard statements	H290, H314, H318
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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word Danger

Hazard statements H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

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Precautionary statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P310 Immediately call a POISON CENTER/doctor
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

More information

Contains:
Sodium metasilicate
Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether
Propylheptanol ethoxylate

2.3. Other hazards

Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Sodium metasilicate	- 229-912-9 01-2119449811-37 -	8%	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3 - resp. tract irrit.	H290, H314, H318, H335 - -	-
Tetrapotassium pyrophosphate	7320-34-5 230-785-7 - -	1 - 3%	Eye Irrit. 2	H319 - -	-
Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether	68154-99-4 - - -	1 - 3%	Acute Tox. 4 - dermal, Skin Irrit. 2, Eye Dam. 1	H312, H315, H318 - -	-
Propylheptanol ethoxylate	160875-66-1 - - -	1%	Eye Dam. 1	H318 - -	-

**Substance additional
information**

Regulation (EC) No 648/2004 on detergents: Contains: Nonionic surfactants <5%
Section 16 for the full text of H-phrases mentioned in this section.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

In uncertainty or when symptoms persist, seek medical attention.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Rinse nose and mouth with water. Consult a physician.

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Skin contact	Remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention. Burns should be treated by a doctor.
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Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Continue rinsing eyes during transport to hospital. Seek medical attention immediately.
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Ingestion	If the injured person is fully conscious, give him/her a couple of glasses of milk or water immediately. DO NOT INDUCE VOMITING! Immediately to hospital.
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4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Causes severe caustic burns to skin and eyes. May cause serious eye damage.
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Inhalation	Inhalation of vapors may cause burning in the nose and throat, sneezing, coughing and breathing difficulties. Inhalation of high concentrations of mist entails a risk of lung injury.
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Skin contact	May cause chemical burns with blisters and sores. Even some risk of this with dilute solutions.
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Eye contact	Splashes causes pain and burns. Risk of permanent visual impairment.
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Ingestion	Ingestion may cause severe burns with pain, vomiting, abdominal pain and possibly severe general effect (shock) and kidney damage. Risk of permanent damage due to scarring of burns in the esophagus or stomach.
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4.3. Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Unsuitable extinguishing media	Do not use a direct jet of water.
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5.2. Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture	Nitrous gases can be formed in the event of fire.
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5.3. Advice for firefighters

Special protective equipment for fire-fighters	Containers in the vicinity of fire should be moved immediately or cooled with water. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face mask. Firefighter equipment (eg helmet, safety boots and gloves) that complies with the European standard EN 469, provides basic protection in the event of chemical accidents.
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Measures in case of fire	Immediately isolate the area by dismissing people in the vicinity of the fire.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures

Ensure good ventilation. Wear suitable protective equipment. Avoid inhalation and contact with the skin and eyes. Prevent further leakage or spillage if safe to do so.

6.2. Environmental precautions

Environmental precautions

Prevent entry to sewers and public waters. Notify the responsible authority in the event of contamination of soil or water, or discharges into sewage systems.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Small quantities may be flushed away with water. Major spillage should be banked with sand, earth or similar material and collected into suitable enclosed containers for further destruction.

6.4. Reference to other sections

Reference to other sections

Personal protection see section 8 and for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Ensure good ventilation. Avoid the inhalation of fumes as well as contact with skin and eyes. Wear personal protective equipment.

General hygiene

Emergency shower and eyewash shall be available at the work site. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities

The product is not flammable. Do not store in tanks/containers made of materials such as aluminum, which can be attacked by alkaline substances. Keep locked-up. Keep in a frost-free place. The product should be stored in sealed containers at room temperature or cooler. Keep in properly labelled containers.

7.3. Specific end use(s)

Specific end use(s)

Identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location.

Eye / face protection

Use goggles or face shield (EN 166).

Hand protection

Protective gloves complying with EN 374. Wear suitable gloves (such as vinyl or nitrile).

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Other skin protection	Wear suitable protective clothing.
Respiratory protection	Breathing protection is not normally required. In case of inadequate ventilation wear respiratory protection.
Environmental exposure controls	Do not discharge into drains, drinking water supply or ground.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Light yellow
Odour	Weak
Melting point / freezing point	No information available
Boiling point or initial boiling point and boiling range	No information available
Flammability	No information available
Lower and upper explosion limit	No information available
Flash point	No data available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
pH	13,3 (concentrate), 11,6 (1% in solution).
Kinematic viscosity	No information available
Solubility	Water-soluble
Partition coefficient n-octanol/water	No information available
Vapour pressure	No information available
Density and/or relative density	1085 kg/m ³
Relative vapour density	No information available
Evaporation Rate	No information available
Particle characteristics	Not relevant.

9.2. Other information

Other information	No information available
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

In the event of contact with certain metals, hydrogen gas is formed, which together with air can form an explosive mixture.

10.2. Chemical stability

Chemical stability

Stable under normal conditions and temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

No known risks of hazardous reactions.

10.4. Conditions to avoid

Conditions to avoid

Metals

10.5. Incompatible materials

Incompatible materials

In the event of contact with certain metals, hydrogen gas is formed, which together with air can form an explosive mixture.

10.6. Hazardous decomposition products

Hazardous decomposition products

No harmful degradation products during normal handling.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
Sodium metasilicate 10213-79-3 / 229-912-9	LD50	1152-1349 mg/kg	Oral	Rat
Sodium metasilicate 10213-79-3 / 229-912-9	LC50	>2,06 g/m3	Inhalation	Rat
Sodium metasilicate 10213-79-3 / 229-912-9	LD50	>5000 mg/kg	Dermal	Rat

Skin corrosion/irritation

Causes severe skin burns and eyes.

Serious eye damage/irritation

Causes serious eye damage.

Germ cell mutagenicity

Based on the available data, the classification criteria are not met.

Carcinogenicity

Based on the available data, the classification criteria are not met.

Repeated dose toxicity

Based on the available data, the classification criteria are not met.

Reproductive toxicity

Based on the available data, the classification criteria are not met.

STOT-single exposure

Based on the available data, the classification criteria are not met.

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STOT-repeated exposure Based on the available data, the classification criteria are not met.

Aspiration hazard Based on the available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation of vapors may cause burning in the nose and throat, sneezing, coughing and breathing difficulties. Inhalation of high concentrations of mist entails a risk of lung injury.

May cause chemical burns with blisters and sores. Even some risk of this with dilute solutions.

Splashes causes pain and burns. Risk of permanent visual impairment.

Ingestion may cause severe burns with pain, vomiting, abdominal pain and possibly severe general effect (shock) and kidney damage. Risk of permanent damage due to scarring of burns in the esophagus or stomach.

11.2. Information on other hazards

Endocrine disrupting properties Contains no substances with endocrine disrupting properties.

Other information No information available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity The product is not classified as environmentally harmful.

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Sodium metasilicate 10213-79-3 / 229-912-9	LC50	210 mg/l	96 h	fish	-
Propylheptanol ethoxylate 160875-66-1 /	LC50	> 10-100 mg/l	96h	Rainbow trout	Analogy (interpolation)

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	EC50	> 10-100 mg/l	72h	Scenedesmus subspicatus

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Propylheptanol ethoxylate 160875-66-1 /	EC50	>1-10 mg/l	48 h	Daphnia magna (Water flea)	Analogy (interpolation)
Sodium metasilicate / 229-912-9	EC50	1700 mg/l	48 h	Daphnia magna (Water flea)	-

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12.2. Persistence and degradability

Persistence and degradability

The component surfactants are easily biodegradable according to Regulation (EC) No 648/2004 on detergents.

Product / Substance name CAS / EC no.	Result	Method / Guideline
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	Readily biodegradable	OECD TG 301D

12.3. Bioaccumulative potential

Bioaccumulative potential

Bio-accumulation is unlikely.

12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB
assessment**

The product and its agents are not expected to be PBT and/or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties

Contains no substances with endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The product should be disposed of as hazardous waste. Dispose of any product, residue or packing material according to national and local regulations. Do not dispose of waste into sewer.

Packaging

Contaminated packaging must be disposed of as product. Empty, cleaned packaging can be sorted for recycling.

Waste code	Description
07 06 04*	other organic solvents, washing liquids and mother liquors
20 01 29*	detergents containing hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

Other

Waste code

The waste code is a recommendation. Depends on business area and use. Appropriate classification of waste is the user's responsibility.

SECTION 14: Transport information

14.1. UN number

UN number

1760

14.2. UN proper shipping name

CORROSIVE LIQUID N.O.S. (Sodium metasilicate)

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IMDG proper shipping name CORROSIVE LIQUID N.O.S. (Sodium metasilicate)

14.3. Transport hazard class(es)

Label 8

ADR / RID Class 8

ADR / RID Classification code C9

ADR / RID hazard identification number 80

IMDG Class 8

14.4. Packing group

Packing group II

14.5. Environmental hazards

Environmental hazards The product is not classified as environmentally hazardous.

IMDG Marine Pollutant No.

14.6. Special precautions for user

Special precautions for user The product is classified as corrosive and should be handled as such. Follow precautionary statements and accompanying transport cards when handling the product.
IMDG EmS: F-A, S-B
Tunnel restriction code: E

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not intended for bulk transport.

SECTION 15: Regulatory information

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

EU regulations Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council.
EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 648/2004 on detergents.
The International Maritime Dangerous Goods (IMDG) Code, 2020 Edition.
ADR 2021: Agreement concerning the International Carriage of Dangerous Goods by Road, ECE/TRANS/300.

National regulations Local laws and regulations should be carefully observed.

15.2. Chemical safety assessment

Chemical safety assessment A chemical safety assessment has been performed for:
Sodium metasilicate
Tetrapotassium pyrophosphate

SECTION 16: Other information

Changes to previous revision 1

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Abbreviations

PBT: Persistent, Bioaccumulative and Toxic.
vPvB: very Persistent and very Bioaccumulative.
LD50: Lethal dose, the dose that kills 50% of a population.
LC50: Lethal concentration for 50% of a test population.
EC50: The concentration of a substance that affects 50% of a population over a given period of time.
DNEL: Derived level without observed effects.
PNEC: Presumed concentration without observed effects.

References to key literature and data sources

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Evaluation methods for classification

The classification is based on the addition method according to Regulation (EC) No 1272/2008 (CLP).

Phrase meaning

Eye Irrit. 2 - Eye irritation, hazard category 2
Acute Tox. 4 - dermal - Acute toxicity, dermal, hazard category 4
Skin Irrit. 2 - Skin irritation, hazard category 2
Eye Dam. 1 - Serious eye damage, hazard category 1
Met. Corr. 1 - Corrosive to metals, hazard category 1
Skin Corr. 1B - Skin corrosion, hazard category 1B
STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation
H290 May be corrosive to metals.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.