

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Marisol FW

Version number: 6

Issued: 2022-05-02

Replaces SDS: 2022-03-04

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

1.1. Product identifier

Trade name	Marisol FW
Article No.	24-4114
UFI code	YW23-P0W1-C006-GGMT

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 Skin irritation, hazard category 2
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Hazard statements	H315, H318
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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word Danger

Hazard statements
H315 Causes skin irritation.
H318 Causes serious 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.
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
P310 Immediately call a POISON CENTER/doctor
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P102 Keep out of reach of children.

More information

Contains: 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
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	68155-07-7 931-329-6 - -	0 - <5%	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2	H315, H318, H411 - -	-
Propylheptanol ethoxylate	160875-66-1 605-233-7 - -	0 - <5%	Eye Dam. 1	H318 - -	-
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides	1554325-20-0 810-152-7 - -	0 - <5%	Acute Tox. 4 - oral, Skin Irrit. 2, Eye Dam. 1	H302, H315, H318 - -	-
Potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33 019-002-00-8	0 - <2%	Met. Corr. 1, Acute Tox. 4 - oral, Skin Corr. 1A	H290, H302, H314 - -	Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %

Substance additional information

Regulation (EC) No 648/2004 on detergents:
Contains: Non-ionic surfactants <5%. Cationic 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 if irritation develops and persists. Burns should be treated by a doctor.
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Eye contact	In case of contact with eyes, remove any contact lenses and rinse immediately with plenty of water, even under the eyelids, for at least 15 minutes. Continue rinsing eyes during transport to hospital.
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Ingestion	Rinse mouth out with water. Give small amounts of water to drink. Do not induce vomiting. Consult a physician for specific advice.
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4.2. Most important symptoms and effects, both acute and delayed

Skin contact	Corrosion damage.
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Eye contact	Causes serious eye damage. May cause pain, heavy tearing, redness, swelling and blurred vision.
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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	Water mist, foam, carbon dioxide, powder.
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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	Toxic, irritating and corrosive smoke.
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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.
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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.
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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.
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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 inhalation and contact with the 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. Wash clothing before reuse.

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

No data available

8.2. Exposure controls

Appropriate engineering controls Emergency shower and eye wash facilities must be available at the workplace. Ensure adequate ventilation.

Eye / face protection Use goggles or face shield (EN 166).

Hand protection Protective gloves complying with EN 374. Nitrile rubber.

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 Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Colour Light yellow

Odour Mild

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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	> 12.5
Kinematic viscosity	No information available
Viscosity, dynamic	No information available
Solubility	Water-soluble
Partition coefficient n-octanol/water	No information available
Vapour pressure	No information available
Density and/or relative density	1030 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	Stable under normal conditions and temperatures.
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10.2. Chemical stability

Chemical stability	Stable under normal usage and storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	No specific hazards.
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10.5. Incompatible materials

Incompatible materials	No information available.
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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 the available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
Potassium hydroxide 1310-58-3 / 215-181-3	LD50	333 mg/kg	Oral	Rat, male	OECD Guideline 425
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) 68155-07-7 / 931-329-6	LD50	>5000 mg/kg	Oral	Rat	-
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides 1554325-20-0 / 810-152-7	LD50	> 300 - 2000 mg/kg	Oral	Rat	-
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) 68155-07-7 / 931-329-6	LD50	~2000 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.

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.

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.

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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

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides 1554325-20-0 / 810-152-7	LC50	> 10 - 100 mg/l	96h	-	-
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) 68155-07-7 / 931-329-6	NOEC	0.32 mg/l	-	Rainbow trout	-
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	LC50	>10-100 mg/l	96 h	Oncorhynchus mykiss	-
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) 68155-07-7 / 931-329-6	LC50	2.4 mg/l	96 h	Oncorhynchus mykiss	OECD 203

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Amides, C8-18 (even numbered) and C18-	ErC50	3.9 mg/l	72h	Selenastrum subspicatus

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
unsatd., N, N-bis(hydroxyethyl) 68155-07-7 / 931-329-6				
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides 1554325-20-0 / 810-152-7	EC50	> 1 - 10 mg/l	72h	-

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) 68155-07-7 / 931-329-6	EC50	3.2 mg/l	72 h	Daphnia magna (Water flea)	-
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides 1554325-20-0 / 810-152-7	EC50	> 1 - 10 mg/l	48h	Daphnia	-
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	EC50	>10-100 mg/l	48 h	Daphnia magna (Water flea)	-
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) 68155-07-7 / 931-329-6	NOEC	0.07 mg/l	21d	Daphnia magna	OECD 211

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
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides 1554325-20-0 / 810-152-7	Readily biodegradable	OECD TG 301D

12.3. Bioaccumulative potential

Bioaccumulative potential

Bio-accumulation is unlikely.

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12.4. Mobility in soil

Mobility No information available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This mixture does not contain any REACH registered substances that are assessed to be a PBT or a 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 other adverse effects.

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.

Packaging Contaminated packaging must be disposed of as product. Emptied and cleaned packaging can be recycled.

Waste code	Description
20 01 29*	detergents containing hazardous substances
07 06 01*	aqueous washing liquids and mother liquors

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 Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Label Not applicable

ADR / RID Class Not applicable

14.4. Packing group

Packing group Not applicable

14.5. Environmental hazards

Environmental hazards Not applicable

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14.6. Special precautions for user

Special precautions for user Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not applicable

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

National regulations Local laws and regulations should be carefully observed.

15.2. Chemical safety assessment

Chemical safety assessment No chemical safety assessment has been performed.

SECTION 16: Other information

Changes to previous revision 1, 2

Abbreviations PBT: Persistent, Bioaccumulative and Toxic.
vPvB: very Persistent and very Bioaccumulative.
LD50: Lethal dose, the dose that kills 50% of a population.
ErC50: the concentration of test substance which results in a 50 percent reduction in growth rate.
EC50: The concentration of a substance that affects 50% of a population over a given period of time.
NOEC: No Observed Effect Concentration
DNEL: Derived level without observed effects.

References to key literature and data sources <http://echa.europa.eu>
<http://eur-lex.europa.eu>
C&L Inventory

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

Phrase meaning Met. Corr. 1 - Corrosive to metals, hazard category 1
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Skin Corr. 1A - Skin corrosion, hazard category 1A
Skin Irrit. 2 - Skin irritation, hazard category 2
Eye Dam. 1 - Serious eye damage, hazard category 1
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.