

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

### 1.1. Product identifier

<b>Trade name</b>	Marisol Terra
<b>Article No.</b>	24-4083, 24-4084
<b>UFI code</b>	1233-Q08T-Y006-T5SX

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

<b>Product type</b>	Alkaline cleaning agent.
<b>Relevant identified uses</b>	Restricted to professional users.

### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	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

<b>Emergency phone number</b>	112
<b>Available outside office hours</b>	Yes

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

<b>Classification</b>	Serious eye damage, hazard category 1 Skin irritation, hazard category 2
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<b>Hazard statements</b>	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.

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

Version number: 4

Issued: 2022-05-03

Replaces SDS: 2021-06-22

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P310 Immediately call a POISON CENTER/doctor  
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 + P352 IF ON SKIN: Wash with plenty of water/.

**More information**

Contains: 2-Propylheptanol, ethoxylated

*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
Propylheptanol ethoxylated	160875-66-1 605-233-7 - -	6 - 7.5%	Acute Tox. 4 - oral, Eye Dam. 1	H302, H318 - -	-
C6 alkyl glucoside	54549-24-5 259-217-6 01-2119492545-29 -	1 - 3%	Eye Dam. 1	H318 - -	-
Potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33 019-002-00-8	0.5 - <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**

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.

**Skin contact**

Rinse the skin immediately with lots of water. Remove contaminated clothing. Get medical attention if irritation develops and persists.

**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.

<b>Ingestion</b>	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*

<b>Skin contact</b>	Irritating to skin.
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<b>Eye contact</b>	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*

<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

*5.1. Extinguishing media*

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

<b>Special hazards arising from the substance or mixture</b>	Hydrogen gas is formed upon contact with metals, that can form explosive mixtures with air.
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*5.3. Advice for firefighters*

<b>Special protective equipment for fire-fighters</b>	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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<b>Measures in case of fire</b>	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*

<b>Personal precautions, protective equipment and emergency procedures</b>	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*

<b>Environmental precautions</b>	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*

<b>Methods and material for containment and cleaning up</b>	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*

<b>Reference to other sections</b>	Personal protection see section 8 and for disposal see section 13.
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## 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** 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

#### National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m <sup>3</sup>	Short-term exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
Potassium hydroxide	1310-58-3 215-181-3	- -	- 2	WEL	-	-

### 8.2. Exposure controls

**Appropriate engineering controls** Eye shower should be available.

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

**Hand protection** Use protective gloves. The gloves must conform to the standard EN 374. Protective gloves made of materials PVC, nitrile or neoprene (chemical protection >8h) should be used.

**Other skin protection** Wear suitable protective clothing.

**Respiratory protection** Wear dust mask (P2).

**Thermal hazards** Hydrogen gas is formed upon contact with metals, that can form explosive mixtures with air.

**Environmental exposure controls** To limit the environmental exposure of the product, the product must be disposed of or incinerated in accordance with local regulations.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Liquid

**Colour** No information available

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

Version number: 4

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Replaces SDS: 2021-06-22

<b>Odour</b>	Slight odour.
<b>Melting point / freezing point</b>	No information available
<b>Boiling point or initial boiling point and boiling range</b>	No information available
<b>Flammability</b>	The product is not flammable.
<b>Lower and upper explosion limit</b>	No information available
<b>Flash point</b>	No data available
<b>Auto-ignition temperature</b>	The product is not self-ignitable.
<b>Decomposition temperature</b>	No information available
<b>pH</b>	Approx 13.0 (concentrate)
<b>Kinematic viscosity</b>	No information available
<b>Solubility</b>	Easily soluble in water
<b>Partition coefficient n-octanol/water</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Density and/or relative density</b>	1035
<b>Relative vapour density</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Explosive properties</b>	The product is not flammable.
<b>Oxidising properties</b>	The product has no oxidizing properties.
<i>9.2. Other information</i>	
<b>Other information</b>	No other information to add.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	Stable under normal conditions and temperatures.
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### 10.2. Chemical stability

<b>Chemical stability</b>	Stable under normal conditions and temperatures.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Avoid acids. Hydrogen gas is formed upon contact with metals, that can form explosive mixtures with air.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods.
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**SAFETY DATA SHEET**  
According to Regulation (EC) No 1907/2006  
**Marisol Terra**

Version number: 4

Issued: 2022-05-03

Replaces SDS: 2021-06-22

*10.5. Incompatible materials*

**Incompatible materials**

Hydrogen gas is formed upon contact with metals, that can form explosive mixtures with air. Avoid mixing with chemicals, such as acids.

*10.6. Hazardous decomposition products*

**Hazardous decomposition products**

No known hazardous decomposition products for this product.

## 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 bw	Oral	Rat	OECD 425
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	LD50	> 300-2000 mg/kg	Oral	Rat	-
C6 alkyl glucoside 54549-24-5 / 259-217-6	LD50	> 2000 mg/kg kv	Oral	Rat	Analogy (interpolation)
C6 alkyl glucoside 54549-24-5 / 259-217-6	LD50	> 2000 mg/kg kv	Dermal	Rabbit	Analogy (interpolation)

**Skin corrosion/irritation**

Irritating to skin.

**Serious eye damage/irritation**

Causes serious eye damage.  
Pain and acid burns. Risk of permanent visual impairment.

**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.

*11.2. Information on other hazards*

**Other information**

No information available

## SECTION 12: Ecological information

*12.1. Toxicity*

**Acute toxicity**

The product is not classified as environmentally harmful.

**Marisol Terra**

**Acute fish toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Potassium hydroxide 1310-58-3 / 215-181-3	LC50	80 mg/l	96h	Gambusia affinis (Mosquito fish)	-
Potassium hydroxide 1310-58-3 / 215-181-3	LC50	165 mg/l	24h	Poecilia reticulata	-
Propylheptanol ethoxylated 160875-66-1 / 605- 233-7	LC50	>10-100 mg/l	96 h	Rainbow trout	-
C6 alkyl glucoside 54549-24-5 / 259-217- 6	LC50	> 100 mg/l	96h	Oncorhynchus mykiss	OECD 203

**Acute algae toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Potassium hydroxide 1310-58-3 / 215-181-3	EC50	22 mg/l	15 Minutes	Photobacterium phosphoreum
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	EC50	> 10-100 mg/l	72h	Scenedesmus subspicatus
C6 alkyl glucoside 54549-24-5 / 259-217-6	EC50	> 100 mg/l	72h	Scenedesmus quadricauda

**Acute crustacean toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Propylheptanol ethoxylated 160875-66-1 / 605- 233-7	EC50	>10-100 mg/l	48 h	Daphnia magna (Water flea)	-
C6 alkyl glucoside 54549-24-5 / 259-217- 6	EC50	> 100 mg/l	48h	Daphnia magna	OECD 202

**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**

Bioaccumulation 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 substance/mixture does not contain any components that are considered persistent, bioaccumulative and toxic (PBT) or very persistent and highly bioaccumulative (vPvB) at levels of 0.1% or higher.

*12.6. Endocrine disrupting properties*

**Endocrine disrupting properties**

Not applicable.

*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. Do not dispose of waste into sewer. Empty, cleaned packaging must be sorted for recycling.

**Packaging**

Contaminated packaging must be disposed of as product.

Waste code	Description
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 classified as dangerous in the meaning of transport regulations.

*14.2. UN proper shipping name*

Not applicable

*14.3. Transport hazard class(es)*

Not applicable

*14.4. Packing group*

Not applicable

*14.5. Environmental hazards*

**Environmental hazards**

No

*14.6. Special precautions for user*

Not applicable



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

Version number: 4

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Replaces SDS: 2021-06-22

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.

**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:  
Potassium hydroxide  
C6 alkyl glucoside

## SECTION 16: Other information

**Changes to previous revision**

1

**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.  
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>  
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  
Eye Dam. 1 - Serious eye damage, hazard category 1  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.