

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

### 1.1. Product identifier

|                    |                           |
|--------------------|---------------------------|
| <b>Trade name</b>  | Marisol AP                |
| <b>Article No.</b> | 24-4010, 24-4011, 24-4012 |
| <b>UFI code</b>    | A033-60KE-N00P-5U6V       |

### 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<br>426 58 Västra Frölunda<br>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<br>Skin irritation, hazard category 2 |
|-----------------------|---|

|                          |            |
|--------------------------|------------|
| <b>Hazard statements</b> | H315, H318 |
|--------------------------|------------|

### 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.

**Marisol AP**

**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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P310 Immediately call a POISON CENTER/doctor  
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.<br>EC No.<br>REACH No.<br>Index No.                | Concentration | Classification   | H-phrase<br>M factor acute<br>M factor chronic | Note   |
|----------------------------|--|---------------|--|--|--|
| Propylheptanol ethoxylated | 160875-66-1<br>605-233-7<br>-<br>-                         | 5 - 8%        | Acute Tox. 4 - oral,<br>Eye Dam. 1                     | H302, H318<br>-<br>-                           | -  |
| Potassium hydroxide        | 1310-58-3<br>215-181-3<br>01-2119487136-33<br>019-002-00-8 | 1 - <2%       | Met. Corr. 1, Acute<br>Tox. 4 - oral, Skin<br>Corr. 1A | H290, H302, H314<br>-<br>-                     | Eye Irrit. 2; H319:<br>0,5 % ≤ C < 2 %<br>Skin Corr. 1A;<br>H314: C ≥ 5 %<br>Skin Corr. 1B;<br>H314: 2 % ≤ C < 5<br>%<br>Skin Irrit. 2; H315:<br>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.

**Ingestion**

Rinse mouth out with water. Give small amounts of water to drink. Do not induce vomiting. Consult a physician for specific advice.

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

**Skin contact** Irritating to skin.

**Eye contact** Causes serious eye damage. May cause pain, heavy tearing, redness, swelling and blurred vision.

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

**Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## SECTION 5: Firefighting measures

*5.1. Extinguishing media*

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media** Do not use a direct jet of water.

*5.2. Special hazards arising from the substance or mixture*

**Special hazards arising from the substance or mixture** The product is not flammable. Not combustible. If involved in a fire, it may emit noxious and toxic fumes.

*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.

**Measures in case of fire** Immediately isolate the area by dismissing people in the vicinity of the fire.

## 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

|  |   |
|--|---|
| <b>Preventive handling precautions</b> | Ensure good ventilation. Avoid the inhalation of fumes as well as contact with skin and eyes. Wear personal protective equipment. |
|--|---|

|                        |  |
|------------------------|--|
| <b>General hygiene</b> | Wash hands before breaks and immediately after handling the product. |
|------------------------|--|

### 7.2. Conditions for safe storage, including any incompatibilities

|   |  |
|---|--|
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep locked-up. Keep in a frost-free place. Keep container tightly closed. Keep in properly labelled containers. |
|---|--|

### 7.3. Specific end use(s)

|                            |   |
|----------------------------|---|
| <b>Specific end use(s)</b> | 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

|   |                               |
|---|-------------------------------|
| <b>Appropriate engineering controls</b> | Eye washes must be available. |
|---|-------------------------------|

|                              |                           |
|------------------------------|---------------------------|
| <b>Eye / face protection</b> | Wear eye/face protection. |
|------------------------------|---------------------------|

|                        |   |
|------------------------|---|
| <b>Hand protection</b> | Use suitable protective gloves made of nitrile rubber.<br>Glove thickness: 0.35 mm<br>Breakthrough time: >= 8 hours |
|------------------------|---|

|                              |                                    |
|------------------------------|------------------------------------|
| <b>Other skin protection</b> | Wear suitable protective clothing. |
|------------------------------|------------------------------------|

|                               |  |
|-------------------------------|--|
| <b>Respiratory protection</b> | In case of inadequate ventilation wear respiratory protection. |
|-------------------------------|--|

|  |  |
|--|--|
| <b>Environmental exposure controls</b> | Avoid discharges into drains, onto the ground and in aquatic environments. |
|--|--|

## SECTION 9: Physical and chemical properties

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

|                       |        |
|-----------------------|--------|
| <b>Physical state</b> | Liquid |
|-----------------------|--------|

|               |                          |
|---------------|--------------------------|
| <b>Colour</b> | No information available |
|---------------|--------------------------|

|              |                          |
|--------------|--------------------------|
| <b>Odour</b> | No information available |
|--------------|--------------------------|

|                                       |                          |
|---------------------------------------|--------------------------|
| <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> | No information available |
|---------------------|--------------------------|

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

Version number: 5

Issued: 2022-04-27

Replaces SDS: 2021-05-07

|  |                          |
|--|--------------------------|
| <b>Lower and upper explosion limit</b>       | No information available |
| <b>Flash point</b>                           | No data available        |
| <b>Auto-ignition temperature</b>             | No information available |
| <b>Decomposition temperature</b>             | No information available |
| <b>pH</b>                                    | No information available |
| <b>Kinematic viscosity</b>                   | No information available |
| <b>Solubility</b>                            | Water-soluble            |
| <b>Partition coefficient n-octanol/water</b> | No information available |
| <b>Vapour pressure</b>                       | No information available |
| <b>Density and/or relative density</b>       | No information available |
| <b>Relative vapour density</b>               | No information available |
| <b>Evaporation Rate</b>                      | No information available |
| <b>Explosive properties</b>                  | No information available |
| <b>Oxidising properties</b>                  | No information available |
| <b>Particle characteristics</b>              | Not relevant.            |

*9.2. Other information*

|                          |                          |
|--------------------------|--------------------------|
| <b>Other information</b> | No information available |
|--------------------------|--------------------------|

## SECTION 10: Stability and reactivity

*10.1. Reactivity*

|                   |               |
|-------------------|---------------|
| <b>Reactivity</b> | Not reactive. |
|-------------------|---------------|

*10.2. Chemical stability*

|                           |   |
|---------------------------|---|
| <b>Chemical stability</b> | Stable under normal usage and storage conditions. |
|---------------------------|---|

*10.3. Possibility of hazardous reactions*

|   |   |
|---|---|
| <b>Possibility of hazardous reactions</b> | No hazardous reactions known. Hazardous polymerisation does not occur |
|---|---|

*10.4. Conditions to avoid*

|                            |                      |
|----------------------------|----------------------|
| <b>Conditions to avoid</b> | No specific hazards. |
|----------------------------|----------------------|

*10.5. Incompatible materials*

|                               |             |
|-------------------------------|-------------|
| <b>Incompatible materials</b> | None known. |
|-------------------------------|-------------|

*10.6. Hazardous decomposition products*

|   |   |
|---|---|
| <b>Hazardous decomposition products</b> | 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<br>CAS / EC no.              | Dose descriptor | Value / Dose     | Exposure route | Test animals | Method / Guideline |
|---|-----------------|------------------|----------------|--------------|--------------------|
| Potassium hydroxide<br>1310-58-3 / 215-181-3          | LD50            | 333 mg/kg bw     | Oral           | Rat          | OECD 425           |
| Propylheptanol ethoxylated<br>160875-66-1 / 605-233-7 | LD50            | > 300-2000 mg/kg | Oral           | Rat          | -                  |

**Skin corrosion/irritation** Irritating to skin.

**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.

### 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.

#### Acute fish toxicity

| Product / Substance name<br>CAS / EC no.              | Measurement type | Value / Result | Duration of exposure | Species                          |
|---|------------------|----------------|----------------------|----------------------------------|
| Potassium hydroxide<br>1310-58-3 / 215-181-3          | LC50             | 80 mg/l        | 96h                  | Gambusia affinis (Mosquito fish) |
| Potassium hydroxide<br>1310-58-3 / 215-181-3          | LC50             | 165 mg/l       | 24h                  | Poecilia reticulata              |
| Propylheptanol ethoxylated<br>160875-66-1 / 605-233-7 | LC50             | >10-100 mg/l   | 96 h                 | Rainbow trout                    |

**Acute algae toxicity**

**Marisol AP**

| Product / Substance name<br>CAS / EC no.              | Measurement type | Value / Result | Duration of exposure | Species                    |
|---|------------------|----------------|----------------------|----------------------------|
| Potassium hydroxide<br>1310-58-3 / 215-181-3          | EC50             | 22 mg/l        | 15 Minutes           | Photobacterium phosphoreum |
| Propylheptanol ethoxylated<br>160875-66-1 / 605-233-7 | EC50             | > 10-100 mg/l  | 72h                  | Scenedesmus subspicatus    |

**Acute crustacean toxicity**

| Product / Substance name<br>CAS / EC no.              | Measurement type | Value / Result | Duration of exposure | Species                    |
|---|------------------|----------------|----------------------|----------------------------|
| Propylheptanol ethoxylated<br>160875-66-1 / 605-233-7 | EC50             | >10-100 mg/l   | 48 h                 | Daphnia magna (Water flea) |

*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<br>CAS / EC no.              | Result                | Method / Guideline |
|---|-----------------------|--------------------|
| Propylheptanol ethoxylated<br>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**

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**

Not relevant.

*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                                |
|------------|--|
| 07 06 01*  | aqueous washing liquids and mother liquors |

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

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

Version number: 5

Issued: 2022-04-27

Replaces SDS: 2021-05-07

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

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).  
European Parliament and Council Regulation (EC) No. 1272/2008, CLP.  
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

## SECTION 16: Other information

**Changes to previous revision**

1



**Marisol AP**

**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.