

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

### 1.1. Product identifier

<b>Trade name</b>	Marisol RC
<b>Article No.</b>	24-4066
<b>UFI code</b>	07A0-K01U-P009-AT2E

### 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 Corrosive to metals, hazard category 1 Skin corrosion, hazard category 1
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<b>Hazard statements</b>	H290, H314, H318
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### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

**Hazard pictograms**



<b>Signal word</b>	Danger
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<b>Hazard statements</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
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## Marisol RC

### 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.  
P390 Absorb spillage to prevent material damage.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P310 Immediately call a POISON CENTER/doctor

### More information

Contains:  
Potassium hydroxide  
Propylheptanol ethoxylate  
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

### 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
Potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33 019-002-00-8	13 - 14%	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 %
Propylheptanol ethoxylated	160875-66-1 605-233-7 - -	1 - 2%	Acute Tox. 4 - oral, Eye Dam. 1	H302, H318 - -	-
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	308062-28-4 931-292-6 01-2119490061-47 -	1%	Acute Tox. 4 - oral, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2	H302, H315, H318, H400, H411 M-acut=1 -	-

### Substance additional information

Regulation (EC) No 648/2004 on detergents:  
Contains: Non-ionic 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.

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**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**

Remove contaminated clothing. Flush immediately with plenty of tempered water for several minutes. Consult a physician. Burns should be treated by a doctor.

**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.  
Seek medical attention immediately.

**Ingestion**

Rinse mouth. If the injured person is fully conscious, give him/her a couple of glasses of milk or water immediately. DO NOT INDUCE VOMITING! Consult a physician for specific advice.

*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.

*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**

Nitrous gases can be formed in the event of fire.

*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.

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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.

*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. 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*

**Exposure limits**

Contains no substances with occupational exposure limit values.

*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. Wear suitable gloves (such as vinyl or nitrile).

**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. 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

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<b>Colour</b>	Colourless
<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>	No information available
<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>	Approx. 14 (concentrate)
<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>	1140 kg/m <sup>3</sup>
<b>Relative vapour density</b>	No information available
<b>Particle characteristics</b>	Not relevant

*9.2. Other information*

<b>Other information</b>	No information available
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## 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>	In the event of contact with certain metals, hydrogen gas is formed, which together with air can form an explosive mixture.
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*10.4. Conditions to avoid*

<b>Conditions to avoid</b>	No specific hazards.
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*10.5. Incompatible materials*

<b>Incompatible materials</b>	Metals. Acids and oxidizing agents.
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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 available data, the classification criteria are not met.

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

**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.

**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**

The product is classified as corrosive, which contributes to acid burns to skin and eyes, as well as chemical burns if swallowed.

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
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
Potassium hydroxide 1310-58-3 / 215-181-3	LC50	80 mg/l	96h	Gambusia affinis (Mosquito fish)

#### 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
Potassium hydroxide 1310-58-3 / 215-181-3	EC50	22 mg/l	15 Minutes	Photobacterium phosphoreum

#### Acute crustacean 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	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 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 product and its agents are not expected to be PBT and/or vPvB.

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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

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** 3266

14.2. UN proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE)

**IMDG proper shipping name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE)

14.3. Transport hazard class(es)

**Label** 8

**ADR / RID Class** 8

**ADR / RID Classification code** C5

**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



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*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.

Tunnel restriction code: E

IMDG EmS: F-A, S-B

*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:  
Potassium hydroxide  
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

## 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.  
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).

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**Phrase meaning**

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4  
Eye Dam. 1 - Serious eye damage, hazard category 1  
Skin Irrit. 2 - Skin irritation, hazard category 2  
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1  
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2  
Met. Corr. 1 - Corrosive to metals, hazard category 1  
Skin Corr. 1A - Skin corrosion, hazard category 1A  
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.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.