

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

Version number: 4

Issued: 2022-05-03

Replaces SDS: 2021-05-07

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

### 1.1. Product identifier

<b>Trade name</b>	Marisol RW
<b>Article No.</b>	24-4076
<b>UFI code</b>	SPJ0-M03D-A00C-VGS1

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

<b>Relevant identified uses</b>	Acidic cleaner
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### 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
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<b>Available outside office hours</b>	Yes
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

<b>Classification</b>	Skin corrosion, hazard category 1B Serious eye damage, hazard category 1
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<b>Hazard statements</b>	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>	H314 Causes severe skin burns and eye damage.
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**Precautionary statements**

P308 + P311 IF exposed or concerned: 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.  
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.

**More information**

Contains: Phosphoric acid

*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
Phosphoric acid	7664-38-2 231-633-2 01-2119485924-24 -	15 - 30%	Met. Corr. 1, Skin Corr. 1B	H290, H314 - -	-
Oxalic acid	6153-56-6 205-634-3 01-2119534576-33 607-006-00-8	1 - 5%	Acute Tox. 4 - oral, Acute Tox. 4 - dermal, Eye Dam. 1	H302, H312, H318 - -	-
Propylheptanol ethoxylated	160875-66-1 605-233-7 - -	1 - 5%	Acute Tox. 4 - oral, Eye Dam. 1	H302, H318 - -	-
2-Propyn-1-ol, propoxylated	38172-91-7 - - -	1 - 5%	Acute Tox. 4 - oral, Eye Dam. 1	H302, H318 - -	-

**Substance additional information**

Section 16 for the full text of H-phrases mentioned in this section.

Content under the Regulation for detergents: Contains: Nonionic surfactants <5%

## 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. Consult a physician.

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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.  
Seek medical attention immediately.

**Ingestion**

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.  
May cause serious eye damage.

*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**

Oxides of: Phosphorus.

*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.

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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 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

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
Phosphoric acid	7664-38-2 231-633-2	- 1	- 2	OELs - Occupational Exposure Limits - 1st list	European Union	2000
Dipropylene glycolmethylether	34590-94-8 252-104-2	50 308	- -	OELs - Occupational Exposure Limits - 1st list	European Union, Sk	2000

8.2. Exposure controls

**Appropriate engineering controls** Eye washes must be available.

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

**Hand protection** For prolonged or repeated contact use protective gloves.  
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.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid
<b>Colour</b>	Liquid, clear, pale yellow
<b>Odour</b>	Odorless
<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>	Ca. 1,3 (concentrate)
<b>Kinematic viscosity</b>	No information available
<b>Viscosity, dynamic</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>	1.14 kg/m <sup>3</sup>
<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

### 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*

**Possibility of hazardous reactions** Avoid strong bases.

*10.4. Conditions to avoid*

**Conditions to avoid** Avoid excessive heat for prolonged periods.

*10.5. Incompatible materials*

**Incompatible materials** Avoid strong bases.

*10.6. Hazardous decomposition products*

**Hazardous decomposition products** In case of fire, oxides of phosphorus may be formed.

## SECTION 11: Toxicological information

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

**Acute toxicity**

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
Oxalic acid 6153-56-6 / 205-634-3	LD50	375 mg/kg	Oral	-	-	-	-
Oxalic acid 6153-56-6 / 205-634-3	LD50	20000 mg/kg	Dermal	-	Rabbit	-	-
Phosphoric acid 7664-38-2 / 231-633-2	LD50	2600 mg/kg bw	Oral	-	Rat	OECD 423	-
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	LD50	> 300-2000 mg/kg	Oral	-	Rat	-	-
2-Propyn-1-ol, propoxylated 38172-91-7 /	LD50	464 mg/kg	Oral	-	Rat	-	Male
2-Propyn-1-ol, propoxylated 38172-91-7 /	LD50	> 2000 mg/kg	Dermal	24h	Rat	-	Male/Female

**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** Risk of lung damage when inhaled in high concentrations.

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

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**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.

**LD50 Oral** LD50(Phosphoric acid): 2600 mg/kg (rat, female)  
LD50(Oxalic acid dihydrate): 375 mg/kg (rat)  
LD50 (Dipropylene glycol monomethyl ether): >4000 mg/kg (rat)

**LD50 Dermal** LD50(Phosphoric acid): 2740 mg/kg (rabbit)  
LD50(Oxalic acid dihydrate): 20.000 mg/kg (rat)  
LD50 (Dipropylene glycol monomethyl ether): 9510 mg/kg (rabbit)

**Toxicity in case of 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.

**Toxicity in case of skin contact** May cause chemical burns with blisters and sores. Even some risk of this with dilute solutions.

**Toxicity in case of eye contact** Splashes causes pain and burns. Risk of permanent visual impairment.

**Toxicity in case of 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.

**11.2. Information on other hazards**

No data available

## SECTION 12: Ecological information

**12.1. Toxicity**

**Acute toxicity** The product is not classified as environmentally harmful.

**Toxicity** There are no ecotoxicological data on the product, only on the ingredients.

**Acute fish toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Oxalic acid 6153-56-6 / 205-634-3	LC50	> 100 mg/l	96h	-	-
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	LC50	>10-100 mg/l	96 h	Rainbow trout	-
2-Propyn-1-ol, propoxylated 38172-91-7 /	EL50	460 mg/l	96h	Golden orfe	DIN 38 412, part 15

**Acute algae toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Oxalic acid 6153-56-6 / 205-634-3	EC50	10 - 100 mg/l	8h	-	-
Phosphoric acid	ErC50	> 100 mg/l	72h	Desmodesmus	OECD 201

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
7664-38-2 / 231-633-2				subspicatus	
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	EC50	> 10-100 mg/l	72h	Scenedesmus subspicatus	-
2-Propyn-1-ol, propoxylated 38172-91-7 /	EC50	> 100 mg/l	72h	Desmodesmus subspicatus	OECD 201

**Acute crustacean toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Oxalic acid 6153-56-6 / 205-634-3	EC50	> 100 mg/l	48h	Daphnia	-
Phosphoric acid 7664-38-2 / 231-633-2	EC50	> 100 mg/l	48h	Daphnia magna (Water flea)	OECD 202
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	EC50	>10-100 mg/l	48 h	Daphnia magna (Water flea)	-
2-Propyn-1-ol, propoxylated 38172-91-7 /	EC50	> 100 mg/l	48h	Daphnia magna (Water flea)	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**

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**

No information available

**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. 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
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**

UN 1805

### 14.2. UN proper shipping name

CORROSIVE LIQUID N.O.S (phosphoric acid solution)

**IMDG proper shipping name**

CORROSIVE LIQUID N.O.S (PHOSPHORIC ACID)

### 14.3. Transport hazard class(es)

**Label**

8



8

**ADR / RID Class**

8

**ADR / RID hazard identification number**

80

**IMDG Class**

8

**IATA Class**

8

### 14.4. Packing group

**Packing group**

III

### 14.5. Environmental hazards

**Environmental hazards**

The product is not classified as environmentally hazardous.

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**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.

*14.7. Maritime transport in bulk according to IMO instruments*

**Maritime transport in bulk according to IMO instruments** The load is not intended for bulk transport.

*Other*

**Additional information ADR-RID** Tunnel restriction code : E

## 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.

**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:  
Phosphoric acid  
2-Propyn-1-ol, propoxylated

## SECTION 16: Other information

**Changes to previous revision** 1, 2, 3

**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>

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

**Phrase meaning** Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4  
Acute Tox. 4 - dermal - Acute toxicity, dermal, hazard category 4  
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  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.