

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

Version number: 4

Issued: 2022-05-03

Replaces SDS: 2021-06-16

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

1.1. Product identifier

Trade name	Marisol OC
Article No.	24-4096, 24-4097, 24-4098
UFI code	W2J3-60SH-V00U-NTSF

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 corrosion, hazard category 1
-----------------------	--

Hazard statements	H314, H318
--------------------------	------------

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

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

Version number: 4

Issued: 2022-05-03

Replaces SDS: 2021-06-16

Precautionary statements

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P310 Immediately call a POISON CENTER/doctor

More information

Contains:
Propylheptanol ethoxylate
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides
Potassium hydroxide

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 ethoxylate	160875-66-1 605-233-7 - -	4 - 6%	Eye Dam. 1	H318 - -	-
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 01-2119475104-44 -	5%	Eye Irrit. 2	H319 - -	-
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides	1554325-20-0 810-152-7 - -	2 - 3%	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	1 - 3%	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% - < 15%. Cationic surfactants <5%.

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Fresh air. Rinse mouth and drink water. If symptoms persist, call a physician. Remove person to fresh air and keep comfortable for breathing.

Skin contact

Remove contaminated clothing. Rinse immediately with water for several minutes. Consult a physician for specific advice. Burns should be treated by a doctor.

Eye contact

Rinse immediately with water for at least 15 minutes (separate eyelids). Remove any contact lenses. As a long rinsing time is required, the water must be temperate. Transport to hospital. Continue rinsing during transport.

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!** Immediately to hospital.

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.
Perforation of stomach/intestine, burns in mouth and throat.

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.

Skin contact

May cause chemical burns with blisters and sores. Even some risk of this with dilute solutions.

Eye contact

Splashes causes pain and burns. Risk of permanent visual impairment.

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.

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

Corrosive and irritating.

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

Preventive handling precautions

Ensure good ventilation. Do not breathe vapours/dust. Avoid 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 contaminated 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

2-(2-butoxyethoxy)ethanol, Cas no. 112-34-5, EC no. 203-961-6, Long-term Exposure limit: 10 ppm, 67,5 mg/m³; Short-term Exposure limit: 15 ppm, 101,2 mg/m³. OELs - Occupational Exposure Limits - 2nd list European Union, 2006.

8.2. Exposure controls

Appropriate engineering controls

Emergency shower and eyewash shall be available at the work site. Ensure adequate ventilation.

Eye / face protection

Use goggles or face shield (EN 166).

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

Version number: 4

Issued: 2022-05-03

Replaces SDS: 2021-06-16

Hand protection

Use protective gloves. Protective gloves complying with EN 374. Wear suitable gloves (such as vinyl or nitrile).

Other skin protection

Long-sleeved clothes.

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

Colour

Yellow

Odour

Slight odour

Melting point / freezing point

No information available

Boiling point or initial boiling point and boiling range

No data 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

13.3 (concentrate)

Kinematic viscosity

No information available

Solubility

Water-soluble

Partition coefficient n-octanol/water

No information available

Vapour pressure

No information available

Density and/or relative density

1040 kg/m³

Relative vapour density

No information available

Particle characteristics

Not relevant

9.2. Other information

Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under normal conditions and temperatures.

10.2. Chemical stability

Chemical stability Stable under normal conditions and temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Acids and oxidizing agents.

10.5. Incompatible materials

Incompatible materials Acids and oxidizing agents.

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

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
2-(2-butoxyethoxy)ethanol 112-34-5 / 203-961-6	LD50	> 2000 ml/kg	Dermal	4h	Rat	OECD 402
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl) dimethyl, ethoxylated, chlorides 1554325-20-0 / 810-152-7	LD50	>300-2000 mg/kg	Oral	-	Rat	-
Potassium hydroxide 1310-58-3 / 215-181-3	LD50	333 mg/kg bw	Oral	-	Rat	OECD 425
2-(2-	LD50	> 29 ppm	Inhalation	2h	Rat	OECD 403

Marisol OC

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
butoxyethoxy)ethanol 112-34-5 / 203-961-6						
2-(2-butoxyethoxy)ethanol 112-34-5 / 203-961-6	LD50	> 5080 mg/kg	Oral	-	Rat	OECD 401

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

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	Method / Guideline
Potassium hydroxide	LC50	80 mg/l	96h	Gambusia affinis	-

Marisol OC

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
1310-58-3 / 215-181-3				(Mosquito fish)	
Potassium hydroxide 1310-58-3 / 215-181-3	LC50	165 mg/l	24h	Poecilia reticulata	-
2-(2-butoxyethoxy)ethanol 112-34-5 / 203-961-6	LC50	1300 mg/l	96h	Leopomis macrochirus	-
Propylheptanol ethoxylate 160875-66-1 / 605-233-7	LC50	> 10-100 mg/l	96h	Rainbow trout	Analogy (interpolation)
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides 1554325-20-0 / 810-152-7	LC50	>10-100 mg/l	96h	-	-

Acute algae 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	EC50	22 mg/l	15 Minutes	Photobacterium phosphoreum	-
2-(2-butoxyethoxy)ethanol 112-34-5 / 203-961-6	EC50	1101 mg/l	72h	Pseudokirchneriella subcapitata (green algae).	OECD 201
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
2-(2-butoxyethoxy)ethanol 112-34-5 / 203-961-6	EC50	112 mg/l	14 days	-	QSAR
Propylheptanol ethoxylate 160875-66-1 / 605-233-7	EC50	>1-10 mg/l	48 h	Daphnia magna (Water flea)	Analogy (interpolation)
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides	EC50	>1-10 mg/l	48h	Daphnia magna (Water flea)	-

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

Version number: 4

Issued: 2022-05-03

Replaces SDS: 2021-06-16

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
ethyl, ethoxylated, chlorides 1554325-20-0 / 810-152-7					

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
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

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.

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 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 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

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards The product is not classified as environmentally hazardous.

IMDG Marine Pollutant No

14.6. Special precautions for user

Special precautions for user 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 The load is 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 (EU) No 1272/2008 of the European Parliament and of the Council (CLP).
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
2-(2-butoxyethoxy)ethanol

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.

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

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 Irrit. 2 - Eye irritation, hazard category 2
Eye Dam. 1 - Serious eye damage, hazard category 1
Skin Irrit. 2 - Skin irritation, 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.
H319 Causes serious eye irritation.