

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

Version number: 4

Issued: 2022-04-28

Replaces SDS: 2021-06-16

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

1.1. Product identifier

Trade name	Marisol CR
Article No.	24-4015
UFI code	XYH3-Q034-K00C-YG6D

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
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Hazard statements	H314, H318
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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.

Marisol CR

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:
Sodium metasilicate

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
1-butylpyrrolidin-2-one	3470-98-2 222-437-8 01-2120062728-48 -	3 - 5%	Acute Tox. 4 - oral, Skin Irrit. 2, Eye Irrit. 2	H302, H315, H319 - -	-
Sodium metasilicate	- 229-912-9 01-2119449811-37 -	1 - 3%	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3 - resp. tract irrit.	H290, H314, H318, H335 - -	-
2-ethylhexanol ethoxylate	26468-86-0 - - -	2%	Eye Irrit. 2	H319 - -	-

Substance additional information

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

Skin contact

Remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention. Burns should be treated by a doctor.

Eye contact

Immediately rinse with water for at least 15 minutes (eyelids parted) and consult a physician. Since long rinsing time is required, the water must be lukewarm. Consult a physician. Continue rinsing eyes during transport to hospital.

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. 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.
May cause serious eye damage.

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

No specific hazards.

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. 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

Exposure limits

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls

Eye washes must be available.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Clear, light yellow

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Odour	Weak
Melting point / freezing point	No information available
Boiling point or initial boiling point and boiling range	No information 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	13,1 (concentrate)
Kinematic viscosity	No information available
Solubility	Easily soluble in water
Partition coefficient n-octanol/water	No information available
Vapour pressure	No information available
Density and/or relative density	1040 kg/m ³
Relative vapour density	No information available
Evaporation Rate	No information available
Particle characteristics	Not relevant.

9.2. Other information

Other information	No information available
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under normal conditions and temperatures.
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10.2. Chemical stability

Chemical stability	Stable under normal conditions and temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	No specific hazards.
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10.5. Incompatible materials

Incompatible materials	None known.
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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 the available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
Sodium metasilicate / 229-912-9	LC50	>2,06 g/m ³	Inhalation	Rat
Sodium metasilicate / 229-912-9	LD50	>5000 mg/kg	Dermal	Rat
2-ethylhexanol ethoxylate 26468-86-0 /	LD50	> 2000 mg/kg	Oral	Rat
Sodium metasilicate / 229-912-9	LD50	1152-1349 mg/kg	Oral	Rat

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
2-ethylhexanol ethoxylate 26468-86-0 /	LC50	> 10-100 mg/l	96h	Rainbow trout
Sodium metasilicate / 229-912-9	LC50	210 mg/l	96 h	fish

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
2-ethylhexanol ethoxylate 26468-86-0 /	EC50	> 1-10 mg/l	72h	Scenedesmus subspicatus (alga)

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
2-ethylhexanol ethoxylate 26468-86-0 /	EC50	> 1-10 mg/l	48h	Daphnia magna (Water flea)
Sodium metasilicate / 229-912-9	EC50	1700 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.

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 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. (Sodium Metasilicate)

IMDG proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE)

14.3. Transport hazard class(es)

ADR / RID Class 8

ADR / RID Classification code C5

ADR / RID hazard identification number 80

IMDG Class 8

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 (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:
1-Butylpyrrolidin-2-one
Sodium metasilicate

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.
PNEC: Presumed concentration without observed effects.
DNEL: Derived level 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

Eye Irrit. 2 - Eye irritation, hazard category 2
Met. Corr. 1 - Corrosive to metals, hazard category 1
Skin Corr. 1B - Skin corrosion, hazard category 1B
Eye Dam. 1 - Serious eye damage, hazard category 1
STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
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.
H335 May cause respiratory irritation.