

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

Version number: 5

Issued: 2022-04-28

Replaces SDS: 2022-01-05

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

1.1. Product identifier

Trade name	Marisol DC
Article No.	24-4021
UFI code	GRJ5-P0NA-G004-H15J

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

Product type	Acidic cleaner
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	Corrosive to metals, hazard category 1 Skin corrosion, hazard category 1B
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Hazard statements	H290, H314
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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word Danger

Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

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Precautionary statements

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

More information

Contains:
Phosphoric acid
Propylheptanol ethoxylate

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 -	30%	Skin Corr. 1B	H314 - -	Eye Irrit. 2; H319: 10 % ≤ C < 25 % Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 %
Propylheptanol ethoxylated	160875-66-1 605-233-7 - -	3%	Acute Tox. 4 - oral, Eye Dam. 1	H302, H318 - -	-
Nitriлотrimethylenetris (phosphonic acid)	6419-19-8 229-146-5 01-2119487988-08 -	1 - 2%	Met. Corr. 1, Eye Irrit. 2	H290, H319 - -	-
Amines, C12-14 (even numbered)-alkyldimethyl, N- oxides	308062-28-4 931-292-6 01-2119490061-47 -	0.5%	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.
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Skin contact	Remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention.
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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. Continue rinsing eyes during transport to hospital. Seek medical attention immediately.
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Ingestion	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.
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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.
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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.
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Skin contact	May cause chemical burns with blisters and sores. Even some risk of this with dilute solutions.
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Eye contact	Splashes causes pain and burns. Risk of permanent visual impairment.
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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.
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4.3. Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Unsuitable extinguishing media	Do not use a direct jet of water.
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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.
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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.
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Measures in case of fire	Immediately isolate the area by dismissing people in the vicinity of the fire.
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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. 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. The product should not be stored above head height.

Suitable packaging materials: Plastic (PE, PP, PVC), fiberglass-reinforced polyester, epoxy-coated concrete, titanium, acidproof or rubber-coated steel.

Materials to avoid: Non acid-proof metals (such as aluminium, copper and iron), bases, unalloyed steel, galvanized surfaces.

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

Phosphoric acid. Cas no: 7664-38-2, EC no: 231-633-2. Long-term exposure limit: 1 mg/m³; Short-term exposure limit: 2 mg/m³. OELs - Occupational Exposure Limits - 1st list European Union, 2000.

8.2. Exposure controls

Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location.

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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
Odour	Characteristic
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	<1 (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	1200 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 Hydrogen gas is formed upon contact with metals, that can form explosive mixtures with air.

10.2. Chemical stability

Chemical stability Stable under normal conditions and temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No known risks of hazardous reactions.

10.4. Conditions to avoid

Conditions to avoid No specific hazards.

10.5. Incompatible materials

Incompatible materials Metals

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
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	LD50	> 300-2000 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.

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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
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	LC50	>10-100 mg/l	96 h	Rainbow trout

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

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

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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. Empty, cleaned packaging must be sorted for recycling.

Packaging Contaminated packaging must be disposed of as product.

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 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

ADR / RID Class 8

ADR / RID Classification code C1

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ADR / RID hazard identification number 80

IMDG Class 1-Acids

IATA 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 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:
Phosphoric acid
Nitrilotrimethylenetris (phosphonic acid)
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.

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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
Eye Irrit. 2 - Eye irritation, hazard category 2
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Eye Dam. 1 - Serious eye damage, hazard category 1
Skin Corr. 1B - Skin corrosion, hazard category 1B
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
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.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.