

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol CC

Version number: 5

Issued: 2025-04-09

Replaces SDS: 2022-04-28

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

1.1. Product identifier

Trade name

Marisol CC

Article No.

24-4540

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

Product type

Corrosion Inhibitor

Relevant identified uses

Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Supplier

AB DFS

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

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

Skin corrosion, hazard category 1B
Serious eye damage, hazard category 1

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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.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P310 Immediately call a POISON CENTER/doctor.

More information

Contains: 2-diethylaminoethanol

2.3. Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

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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
2-Diethylaminoethanol	100-37-8 202-845-2 01-2119488937-14 603-048-00-6	18 - 19%	Flam. Liq. 3, Acute Tox. 4 - oral, Acute Tox. 3 - dermal, Skin Corr. 1B, Eye Dam. 1, Acute Tox. 3 - inhala- tion, STOT SE 3 - resp. tract irrit., Aquatic Acute 2	H226, H302, H311, H314, H318, H331, H335, H402 - -	STOT SE 3; H335: C ≥ 5 %

Substance additional information

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

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

Remove contaminated clothing. Rinse the skin immediately with lots of water. Consult a physician.

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

Causes severe caustic burns to skin and eyes.

May cause serious eye damage.

May cause respiratory irritation.

Overexposure may cause: vomiting, nausea.

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Nitrous gases (toxic if inhaled) may be formed on heating or in a 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.

SECTION 6: Accidental release measures

6.1. 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

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

Spillage should be banked with sand, earth or similar material and collected into suitable enclosed containers for further destruction. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

6.4. 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 inhalation and contact with the skin and eyes. Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Wear personal protective equipment.

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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

Keep locked-up. Keep in a frost-free place. Store in a dry place. Segregate from acids and acid forming substances. The product should be stored in sealed containers at room temperature or cooler. Keep in properly labelled containers. Suitable materials for containers: carbon steel (iron), Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE).

7.3. 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

No data available

8.2. Exposure controls

Appropriate engineering controls

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

Eye / face protection

Use goggles or face shield (EN 166).

Hand protection

Protective gloves complying with EN 374. Nitrile rubber.

Other skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Filter A or Combination filter A/P3.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

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Odour

Slight odour

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

> 62 °C

Flammability

No data available

Lower and upper explosion limit

No data available

Flash point

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

pH

~ 12

Kinematic viscosity

No data available

Solubility

Soluble in water

Partition coefficient n-octanol/water

No data available

Vapour pressure

No data available

Density and/or relative density

~ 1 g/cm³

Relative vapour density

No data available

Particle characteristics

Not relevant.

9.2. Other information

Flash point of 2-Diethylaminoethanol: 51.5°C.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal usage and storage conditions. Remarks: Forms no flammable gases in the presence of water.

10.2. Chemical stability

Stable under normal usage and storage conditions.

10.3. Possibility of hazardous reactions

The progress of reaction is exothermic. Reacts with oxidizing agents. Reacts with halogenated compounds. Reacts with acids. Reacts with acid chlorides.

10.4. Conditions to avoid

Avoid static electricity and protect the product from heat, sparks and open flame.

10.5. Incompatible materials

Avoid contact with strong oxidizing agents and acids. Incompatible with acid chlorides and acid anhydrides.

10.6. 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	Duration of exposure	Test animals	Method / Guideline
2-Diethylamino-ethanol 100-37-8 / 202-845-2	LC50	4.6 mg/l	Inhalation	4h	Rat	Estimated by Haber rule from an IRT.
2-Diethylamino-ethanol 100-37-8 / 202-845-2	LD50	855 mg/kg bw	Dermal	-	Guinea pig	-
2-Diethylamino-ethanol 100-37-8 / 202-845-2	LD50	1320 mg/kg bw	Oral	-	Rat	OECD 401

Skin corrosion/irritation

Causes severe skin burns and eyes.

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Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

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

Aspiration hazard

Based on 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

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

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Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
2-Diethylaminoethanol 100-37-8 / 202-845-2	LC50	147 mg/l	96 h	Leuciscus idus (Golden orfe)	DIN 38412 Part 15, static

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
2-Diethylaminoethanol 100-37-8 / 202-845-2	EC50	62,3 mg/l	72 h	Scenedesmus subspicatus	DIN 38412 Part 9
2-Diethylaminoethanol 100-37-8 / 202-845-2	EC10	21,4 mg/l	72 h	Scenedesmus subspicatus	DIN 38412 Part 9
2-Diethylaminoethanol 100-37-8 / 202-845-2	EC50	34 mg/l	72 h	Skeletonema costatum	ISO/DIS 10253

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
2-Diethylaminoethanol 100-37-8 / 202-845-2	EC50	83,6 mg/l	48 h	Daphnia magna	Directive 79/831/EEC
2-Diethylaminoethanol 100-37-8 / 202-845-2	EC50	165 mg/l	48 h	Daphnia magna	OECD 202

12.2. Persistence and degradability

The product is easily biodegradable.

12.3. Bioaccumulative potential

Bio-accumulation is unlikely.

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12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

Contains no substances with endocrine disrupting properties.

12.7. Other adverse effects

The product is alkaline and may raise the pH locally, if discharged into water. pH 9 is toxic to fish. pH >8.5 has a detrimental effect on algae. Available data on raw materials suggests that only large local emissions may pose a risk of poisoning of aquatic organisms.

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 must be sorted for recycling.

Waste code	Waste description
20 01 29*	detergents containing hazardous substances
07 06 01*	aqueous 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 2735

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

Amines, liquid, corrosive, N.O.S (2-diethylaminoethanol)

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IMDG proper shipping name

Amines, liquid, corrosive, N.O.S (2-diethylaminoethanol)

14.3. Transport hazard class(es)

Label

8

ADR / RID Class

8

ADR / RID Classification code

C7

ADR / RID hazard identification number

80

IMDG Class

8

14.4. Packing group

II

14.5. Environmental hazards

The product is not classified as environmentally hazardous.

IMDG Marine Pollutant

No

14.6. Special precautions for user

Tunnel restriction code: E

IMDG EmS

F-A, S-B

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Local laws and regulations should be carefully observed.

EH40/2005 Workplace exposure limits as amended

15.2. Chemical safety assessment

A chemical safety assessment has been performed for:
2-diethylaminoethanol

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SECTION 16: Other information

Changes to previous revision

2, 3, 9, 11, 12, 15

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

Eye Dam. 1 - Serious eye damage, hazard category 1

Skin Corr. 1B - Skin corrosion, hazard category 1B

Flam. Liq. 3 - Flammable liquids, hazard category 3

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Acute Tox. 3 - dermal - Acute toxicity, dermal, hazard category 3

Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3

STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

Aquatic Acute 2 - Hazardous to the aquatic environment — Acute hazard category 2

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H402 Harmful to aquatic life.