

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol TPD-B

Version number: 5

Issued: 2025-02-04

Replaces SDS: 2022-05-06

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

1.1. Product identifier

Trade name

Marisol TPD-B

Article No.

24-7678

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

Product type

Descaling agent.

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 irritation, hazard category 2

Eye irritation, hazard category 2

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Hazard statements

H315, H319

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash hands thoroughly after handling.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

More information

Contains:

Citric acid

Sulphamic acid

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
Citric acid	- 201-069-1 01-2119457026-42 -	70%	Eye Irrit. 2	H319 - -	-
Sulphamidic acid	5329-14-6 226-218-8 01-2119488633-28 016-026-00-0	10 - 30%	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3	H315, H319, H412 - -	-

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

Inhalation

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

Skin contact

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

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

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.

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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

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

Toxic, irritating and corrosive smoke.

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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

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.

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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.

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. 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

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.

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

Exposure limits

Contains no substances with occupational exposure limit values.

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

The gloves must conform to the standard EN 374.

Wear suitable gloves (such as vinyl or nitrile).

Other skin protection

Wear suitable protective clothing.

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Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Full face mask with a particle filter (P2) may be needed if eg spray mist is formed.

Environmental exposure controls

To limit the environmental exposure of the product, the product must be disposed of or incinerated in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Dry powder

Colour

White

Odour

Slight odour

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

Approx. 2 (concentrate)

Kinematic viscosity

No information available

Solubility

Easy soluble in water

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Partition coefficient n-octanol/water

No information available

Vapour pressure

No information available

Density and/or relative density

1.08

Relative vapour density

No information available

Particle characteristics

Not relevant

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions and temperatures.

10.2. Chemical stability

Stable under normal conditions and temperatures.

10.3. Possibility of hazardous reactions

The product should not be mixed with strong bases, since a violent reaction may occur.

10.4. Conditions to avoid

Avoid excessive heating.

10.5. Incompatible materials

The product reacts violently with strong bases. Avoid contact with strong oxidizing agents and acids.

10.6. Hazardous decomposition products

Upon heating, toxic gases of sulfur dioxide and sulfur trioxide can be formed. In case of fire, harmful vapors may form.

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.

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 the available data, the classification criteria are not met.

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.

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.

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

Acute toxicity

The product is classified as dangerous for the environment: Long term adverse effects to aquatic organisms.

Acute fish toxicity

LC50(48h)(Citric Acid): 440 mg/l (Leuciscus idus melanotus)

LC50(96h)(Sulphamidic acid): 70,3 mg/l (Pimephales promelas)

Acute crustacean toxicity

EC50(48h)(Sulphamidic acid): 71,6 mg/l (Daphnia Magna)

12.2. Persistence and degradability

The surfactants are readily biodegradable according to Regulation (EC) No. 648/2004.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

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12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

The substance/mixture does not contain any components that are considered persistent, bioaccumulative and toxic (PBT) or very persistent and highly bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

The product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Other adverse effects

No other adverse effects.

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	Waste 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

Not applicable

14.2. UN proper shipping name

Not applicable

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14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. 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

National regulations

Local laws and regulations should be carefully observed.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for:

Citric Acid

Sulfamic acid

SECTION 16: Other information

Changes to previous revision

1, 2, 3, 8, 12, 14

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.

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>

C&L Inventory

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Evaluation methods for classification

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

Phrase meaning

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.