

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5
Issued: 2023-11-14
Replaces SDS: 2022-05-02

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

1.1. Product identifier

Trade name

Marisol HD

Article No.

24-4030, 24-4031

UFI code

P533-60Y7-800P-GHD0

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

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

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Version number: 5
Issued: 2023-11-14
Replaces SDS: 2022-05-02

Marisol HD

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 1C

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

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

P260 Do not breathe mist/spray.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P310 Immediately call a POISON CENTER/doctor.

More information

Contains:

Potassium hydroxide

2-Propylheptanol, ethoxylated

2.3. Other hazards

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

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

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 - - -	1 - 5%	Eye Dam. 1	H318 - -	C ≥10%: H318 C 1-10%: H319 C <1%: --- REACH-nr: Exempt
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, Eye Dam. 1	H290, H302, H314, H318 - -	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 %
Propylheptanol ethoxylated	160875-66-1 605-233-7 - -	1 - 3%	Acute Tox. 4 - oral, Eye Dam. 1	H302, H318 - -	-
Dipropylene glycolmethyl- ether	34590-94-8 252-104-2 01-2119450011-60 -	2%	-	- - -	-

Substance additional information

Section 16 for the full text of H-phrases mentioned in this section. 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

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

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

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

Eye contact

In case of contact with eyes, remove any contact lenses and rinse immediately with plenty of water, even under the eyelids, for at least 15 minutes.

Continue rinsing eyes during transport to hospital.

Ingestion

Rinse mouth out with water. Give small amounts of water to drink. Do not induce vomiting. Seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Causes severe caustic burns to skin and eyes.

May cause serious eye damage.

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

The product is not flammable. Not combustible. If involved in a fire, it may emit noxious and toxic fumes.

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

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.

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

Marisol HD

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

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

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

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. Keep container tightly closed. 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

EU Occupational Exposure Limits (OELs), Commission Directive 2000/39/EC, 1st list:

Dipropylene glycol, monomethyl ether

Long-term Exposure Limit (LTEL) value: 308 mg/m³

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
Potassium hydroxide	1310-58-3 215-181-3	- -	- 2	WEL	-	-
Dipropylene glycolmethylether	34590-94-8 252-104-2	50 308	- -	EH40/2005	Sk	2020

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

8.2. Exposure controls

Appropriate engineering controls

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

Eye / face protection

Wear eye/face protection.

Hand protection

Use suitable protective gloves made of nitrile rubber.

Glove thickness: 0.35 mm

Breakthrough time: \geq 8 hours

Other skin protection

Wear full protective clothing.

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Light yellow

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

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

pH

Approx 13.5 (concentrate)

Kinematic viscosity

No information available

Viscosity, dynamic

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

Evaporation Rate

No information available

Explosive properties

No information available

Oxidising properties

No information available

Particle characteristics

No data available

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable under normal usage and storage conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known. Hazardous polymerisation does not occur

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

Marisol HD

10.4. Conditions to avoid

No specific hazards.

10.5. Incompatible materials

None known.

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 the 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
Dipropylene glycolmethylether 34590-94-8 / 252-104-2	LD50	>4000 mg/kg	Oral	-	Rat	-
Dipropylene glycolmethylether 34590-94-8 / 252-104-2	LD50	9510 mg/kg	Dermal	-	Rabbit	-
Dipropylene glycolmethylether 34590-94-8 / 252-104-2	LC50	3,35 mg/l	Inhalation	7h	Rat	-
Potassium hydroxide 1310-58-3 / 215-181-3	LD50	333 mg/kg bw	Oral	-	Rat	OECD 425
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	LD50	> 300-2000 mg/kg	Oral	-	Rat	-

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

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

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5
Issued: 2023-11-14
Replaces SDS: 2022-05-02

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

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

Other information

No other information to add.

SECTION 12: Ecological information

12.1. Toxicity

Acute 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
Dipropylene glycol-methylether 34590-94-8 / 252-104-2	LC50	>100 mg/l	96h	Fish	-
Potassium hydroxide 1310-58-3 / 215-181-3	LC50	80 mg/l	96h	Gambusia affinis (Mosquito fish)	-
Potassium hydroxide 1310-58-3 / 215-181-3	LC50	165 mg/l	24h	Poecilia reticulata	-

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	LC50	>10-100 mg/l	96 h	Rainbow trout	-
Propylheptanol ethoxylate 160875-66-1 /	LC50	> 10-100 mg/l	96h	Rainbow trout	Analogy (interpolation)

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Potassium hydroxide 1310-58-3 / 215-181-3	EC50	22 mg/l	15 Minutes	Photobacterium phosphoreum
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	Method / Guideline
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	EC50	>10-100 mg/l	48 h	Daphnia magna (Water flea)	-
Propylheptanol ethoxylate 160875-66-1 /	EC50	>1-10 mg/l	48 h	Daphnia magna (Water flea)	Analogy (interpolation)
Dipropylene glycolmethylether 34590-94-8 / 252-104-2	EC50	>100 mg/l	48h	Daphnia magna (Water flea)	-

12.2. Persistence and degradability

The component surfactants are easily biodegradable according to Regulation (EC) No 648/2004 on detergents.

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

Product / Substance name CAS / EC no.	Result	Method / Guideline
Propylheptanol ethoxylated 160875-66-1 / 605-233-7	Readily biodegradable	OECD TG 301D
Dipropylene glycolmethylether 34590-94-8 / 252-104-2	>75%	-

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

Product / Substance name CAS / EC no.	Type of test	Result
Dipropylene glycolmethylether 34590-94-8 / 252-104-2	log Pow = .?	-0,35

12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

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

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. Emptied and cleaned packaging can be recycled. Dispose of any product, residue or packing material according to national and local regulations.

Packaging

Contaminated packaging must be disposed of as product.

Waste code	Waste description
07 06 01*	aqueous washing liquids and mother liquors

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

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Replaces SDS: 2022-05-02

Marisol HD

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

3266

14.2. UN proper shipping name

ADR / RID / ADN 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/ADN



8

ADR / RID Class

8

ADR / RID Classification code

C5

ADR / RID hazard identification number

80

IMDG Class

8

14.4. Packing group

III

14.5. Environmental hazards

No

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

Marisol HD

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 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).

European Parliament and Council Regulation (EC) No. 1272/2008, CLP.

EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 648/2004 on detergents.

The International Maritime Dangerous Goods (IMDG) Code, 2020 Edition.

National regulations

Local laws and regulations should be carefully observed.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for:

Potassium hydroxide

SECTION 16: Other information

Changes to previous revision

2, 3, 8, 9, 11, 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.

References to key literature and data sources

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

C&L Inventory

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Marisol HD

Version number: 5

Issued: 2023-11-14

Replaces SDS: 2022-05-02

Evaluation methods for classification

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

Phrase meaning

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

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

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

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.