

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.09.2024

Version number 1

Revision: 09.09.2024

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

- **1.1 Product identifier**
- **Trade name:** DESCALE FOAM SHAMPOO
- **UFI:** WYH6-F09U-700J-ERH9
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Recommended use** Detergents
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MA-FRA S.p.A. a Socio Unico
Via Aquileia, 44/46
20021 Baranzate (MI) ITALIA
Tel. +39 023569981
www.mafra.com
mafra@mafra.it
- **Informing department:** info@mafra.it
- **1.4 Emergency telephone number:** In case of accident call the emergency number 112

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
phosphoric acid
Amines oxide
sulphuric acid
Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

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- Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation

- Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:**

This substance/mixture does not contain any components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures**- Description:** Mixture of substances**- Dangerous components:**

CAS: 147170-44-3 EC number: 931-333-8 Reg.nr.: 01-2119489410-39	Cocamidopropyl Betaine --- Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: $C \geq 10\%$ Eye Irrit. 2; H319: $4\% \leq C < 10\%$	5-<10%
CAS: 7664-38-2 EINECS: 231-633-2 Reg.nr.: 01-2119485924-24	phosphoric acid --- Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302 Note: B Specific concentration limits: Skin Corr. 1B; H314: $C \geq 25\%$ Skin Irrit. 2; H315: $10\% \leq C < 25\%$ Eye Irrit. 2; H319: $10\% \leq C < 25\%$	3-5%
CAS: 308062-28-4 EC number: 931-292-6 Reg.nr.: 01-2119490061	Amines oxide --- Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315	3-5%
CAS: 1554325-20-0 EC number: 810-152-7	Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride --- Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	1-<3%
CAS: 68439-46-3	Ethoxy Alcohol C9-C11 --- Eye Irrit. 2, H319	1-<3%

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- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures**- 6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Protective gloves. (EN 374)

- For non-emergency personnel

Ensure adequate ventilation

Keep away from ignition sources

Wear protective clothing.

- For emergency responders Nitrile rubber, NBR**- 6.2 Environmental precautions:**

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

Dilute with much water.

Do not allow to enter drainage system, surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage**- 7.1 Precautions for safe handling**

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

- Information about protection against explosions and fires: Protect from heat.**- 7.2 Conditions for safe storage, including any incompatibilities****- Storage****- Requirements to be met by storerooms and containers:** Store only in the original container.**- Information about storage in one common storage facility:** Do not store together with alkalis (caustic solutions).**- Further information about storage conditions:** Keep container tightly sealed.**- Class according to regulation on inflammable liquids:** Void**- 7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****- 8.1 Control parameters****- Components with limit values that require monitoring at the workplace:****7664-38-2 phosphoric acid**WEL Short-term value: 2 mg/m³Long-term value: 1 mg/m³**7647-01-0 hydrogen chloride**WEL Short-term value: 8 mg/m³, 5 ppmLong-term value: 2 mg/m³, 1 ppm
(gas and aerosol mists)

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- DNELs**147170-44-3 Cocamidopropyl Betaine**

Oral	Systemic Long-term Effects	7.5 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	12.5 mg/Kg bw/day (Industrial Workers)
Inhalative	Systemic long-term effects	7.5 mg/Kg bw/day (Consumers)
		44 mg/m ³ (Industrial Workers)
		13.4 mg/m ³ (Consumers)

7664-38-2 phosphoric acid

Oral	Systemic Long-term Effects	0.1 mg/Kg bw/day (Consumers)
Inhalative	Local long-term effects	1 mg/m ³ (Industrial Workers)
		0.36 mg/m ³ (Consumers)
	Local short-term effects	2 mg/m ³ (Industrial Workers)
	Systemic long-term effects	10.7 mg/m ³ (Industrial Workers)
		4.57 mg/m ³ (Consumers)

308062-28-4 Amines oxide

Oral	Systemic Long-term Effects	0.44 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	11 mg/Kg bw/day (Industrial Workers)
Inhalative	Systemic long-term effects	5.5 mg/Kg bw/day (Consumers)
		6.2 mg/m ³ (Industrial Workers)
		1.53 mg/m ³ (Consumers)

7664-93-9 sulphuric acid

Inhalative	Local long-term effects	0.05 mg/m ³ (Industrial Workers)
	Local short-term effects	0.1 mg/m ³ (Industrial Workers)

- PNECs**147170-44-3 Cocamidopropyl Betaine**

PNEC STP	3,000 mg/L (STP)
Soil	0.8 mg/Kg (Soil)
Soft Water	0.013 mg/L (Water)
Sea water	0.001 mg/L (Water)
Sediment (soft water)	1 mg/Kg (Water)
Sediment (sea water)	0.1 mg/Kg (Soil)

308062-28-4 Amines oxide

PNEC STP	24 mg/L (STP)
Soil	1.02 mg/Kg (Soil)
Soft Water	0.0335 mg/L (Water)
Sea water	0.00335 mg/L (Water)
Sediment (soft water)	5.24 mg/Kg (Soil)
Sediment (sea water)	0.524 mg/Kg (Soil)

7664-93-9 sulphuric acid

PNEC STP	8.8 mg/L (STP)
Soft Water	0.003 mg/L (Water)
Sea water	0.00025 mg/L (Water)
Sediment (soft water)	0.002 mg/Kg (Soil)
Sediment (sea water)	0.002 mg/Kg (Soil)

- Additional information: The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.

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- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Take off immediately all contaminated clothing
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Hand protection**



Protective gloves. (EN 374)

Acid resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed safety glasses.

- **Body protection:** Acid resistant protective clothing
- **Environmental exposure controls**
 - Disposal must be made according to official regulations.
 - Dispose of packaging according to regulations on the disposal of packagings.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Clear
- **Odour:** Fruit-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Not determined
- **Boiling point or initial boiling point and boiling range** 100 °C (7732-18-5 water, distilled, conductivity or of similar purity)
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** >100 °C
- **Decomposition temperature:** Not determined.
- **pH at 20 °C** <2
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **dynamic:** Not determined.
- **Solubility**
- **Water:** Fully miscible
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20 °C:** 23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
- **Density and/or relative density**
- **Density at 20 °C** 1.04 g/cm³

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- Relative density	Not determined.
- Vapour density	Not determined.
- 9.2 Other information	
- Appearance:	
- Form:	Liquid
- Important information on protection of health and environment, and on safety.	
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not explosive.
- Change in condition	
- Evaporation rate	Not determined.
- Information with regard to physical hazard classes	
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Stable under normal conditions
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with alkali (lyes)
Reacts with strong alkali
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Reacts with strong alkali
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

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.

- LD/LC50 values that are relevant for classification:**147170-44-3 Cocamidopropyl Betaine**

Oral	LD50	2,335 mg/Kg (Rat)
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7664-38-2 phosphoric acid

Oral	LD50	>300 mg/Kg (Rat)
Dermal	LD50	2,740 mg/Kg (Rabbit)

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Inhalative	LC50	>213 mg/L (Rat)
308062-28-4 Amines oxide		
Oral	LD50	mg/Kg (Rat)
	NOAEL	88 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rat)
1554325-20-0 Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride		
Oral	LD50	833 mg/Kg (Rat)
68439-46-3 Ethoxy Alcohol C9-C11		
Oral	LD50	>2,000 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rabbit)
7664-93-9 sulphuric acid		
Oral	LD50	2,140 mg/Kg (Rat)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** No sensitizing effect known.
- **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** Based on available data, the classification criteria are not met.
- **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.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

147170-44-3 Cocamidopropyl Betaine	
LC50 (96h)	1.11 mg/L (Fish)
EC50 (72h)	>1.5 mg/L (Algae)
7664-38-2 phosphoric acid	
LC50 (96h)	75.1 mg/L (Fish)
EC50 (48h)	>100 mg/L (Daphnia)
EC50 (72h)	>100 mg/L (Algae)
308062-28-4 Amines oxide	
LC50 (96h)	2.67 mg/L (Fish)
EC50 (48h)	0.266 mg/L (Algae)
	3.1 mg/L (Daphnia)
EC50 (96h)	2.67 mg/L (Fish)
EC50 (72h)	0.143 mg/L (Algae)
1554325-20-0 Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride	
LC50 (96h)	>10-100 mg/L (Fish)
EC50 (48h)	>1-10 mg/L (Daphnia)
EC50 (72h)	>1-10 mg/L (Algae)
68439-46-3 Ethoxy Alcohol C9-C11	
LC50 (96h)	>1-10 mg/L (Fish)
EC50 (48h)	>1-10 mg/L (Daphnia)
EC50 (72h)	>1-10 mg/L (Algae)

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7664-93-9 sulphuric acid

LC50 (4 h)	0.85 mg/L (Mouse)
LC50 (96h)	>16- <28 mg/L (Fish)
EC50 (72h)	>100 mg/L (Algae)


- **12.2 Persistence and degradability** The contained surfactants are easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
- Do not allow product to reach ground water, water bodies or sewage system.
- Must not reach sewage water or drainage ditch undiluted or unneutralised.
- Danger to drinking water if even small quantities leak into soil.
- The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
- Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
- Disposal must be made according to official regulations.
- Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

- | | |
|--|---|
| - 14.1 UN number or ID number
- ADR, IMDG, IATA | UN3264 |
| - 14.2 UN proper shipping name
- ADR, IMDG, IATA | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION) |
| - 14.3 Transport hazard class(es)
- ADR, IMDG, IATA

<div style="text-align: center;">  </div> |

- Class 8 Corrosive substances.
- Label 8 |
| - 14.4 Packing group
- ADR, IMDG, IATA | III |

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- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Warning: Corrosive substances.
- Kemler Number:	80
- EMS Number:	F-A,S-B
- Segregation groups	(SGG1) Acids
- Stowage Category	A
- Stowage Code	SW2 Clear of living quarters.
- Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Transport category	3
- Tunnel restriction code	E
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

SECTION 15: Regulatory information

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

1. Regulation (EC) 1907/2006 (UK REACH)
2. Regulation (EC) 1272/2008 (GB CLP)
3. Regulation (EU) 2020/878 (UK REACH Annex II)
4. Regulation (EC) 790/2009 (I ATP GB CLP)
5. Regulation (EU) 286/2011 (ATP GB CLP II)
6. Regulation (EU) 618/2012 (III ATP GB CLP)
7. Regulation (EU) 487/2013 (IV ATP GB CLP)
8. Regulation (EU) 944/2013 (V ATP GB CLP)
9. Regulation (EU) 605/2014 (VI ATP GB CLP)
10. Regulation (EU) 2015/1221 (VII ATP GB CLP)
11. Regulation (EU) 2016/918 (VIII ATP GB CLP)
12. Regulation (EU) 2016/1179 (IX ATP GB CLP)
13. Regulation (EU) 2017/776 (X ATP GB CLP)
14. Regulation (EU) 2018/669 (XI ATP GB CLP)
15. Regulation (EU) 2019/521 (XII ATP GB CLP)
16. Regulation (EU) 2018/1480 (XIII ATP GB CLP)
17. Regulation (EU) 2020/217 (XIV ATP GB CLP)
18. Regulation (EU) 2020/1182 (XV ATP GB CLP)
19. Regulation (EU) 2021/643 (XVI ATP GB CLP)
20. Regulation (EU) 2021/849 (XVII ATP GB CLP)
21. Regulation (EU) 2022/692 (XVIII ATP GB CLP)

- Poisons Act

- Regulated explosives precursors

7664-38-2	phosphoric acid	30%
7664-93-9	sulphuric acid	15%

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- Regulated poisons

None of the ingredients is listed.

- Reportable explosives precursors

None of the ingredients is listed.

- Reportable poisons

1310-73-2	sodium hydroxide	12% of total caustic alkalinity
1310-58-3	potassium hydroxide	17% of total caustic alkalinity

- Directive 2012/18/EU**- Named dangerous substances - ANNEX I** None of the ingredients is listed.**- National regulations****- Classification according to VbF:** Void**- Technical instructions (air):**

Class	Share in %
NK	0.1

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.**- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Relevant phrases

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.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- Department issuing data specification sheet: Ma-Fra Laboratories**- Contact:** lab@mafra.it**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3