

SAFETY DATA SHEET

In accordance with 1907/2006 annex II and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)
Issued 2022-03-01
Version number 1.0



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

1.1. Product identifier

Trade name Pro-Clean 82 Ultra

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

Identified uses Cleaning/washing agents

1.3. Details of the supplier of the safety data sheet

Company Alkama AB
Repslagargatan 25
118 26 Stockholm
Sweden
Telephone 070 285 71 70
E-mail maria@alkama.se

1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Corr. 1, H314
Eye Dam. 1, H318
(See section 16)

2.2. Label elements

Hazard pictogram



Signal word	Danger
Hazard statements	
H314	Causes severe skin burns and eye damage
Precautionary statements	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P260	Do not breathe mist, vapours, or spray
P280	Wear protective gloves, protective clothing and eye or face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
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
P501	Dispose of contents and container to authorised waste disposal facility

Supplemental hazard information

Contains: FATTY ALCOHOL ETHOXYLATE, SODIUM METASILICATE PENTAHYDRATE

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
FATTY ALCOHOL ETHOXYLATE		
CAS No: 160875-66-1 EC No: 605-233-7	Acute Tox. 4, Eye Dam. 1; H302, H318	≥10 - <15 %
SODIUM METASILICATE PENTAHYDRATE		
CAS No: 10213-79-3 EC No: 600-279-4	Met. Corr. 1, Skin Corr. 1B, STOT SE 3; H290, H314, H335	≥1 - <5 %
QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE		
CAS No: 1554325-20-0 EC No: 810-152-7	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302, H315, H318	≥1 - <3 %
POTASSIUM PYROPHOSPHATE		
CAS No: 7320-34-5 EC No: 230-785-7 REACH: 01-2119489369-18	Eye Irrit. 2; H319	1 - 3 %
2-AMINOETHANOL		
CAS No: 141-43-5 EC No: 205-483-3 Index No: 603-030-00-8	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT SE 3, Aquatic Chronic 3; H312, H302, H332, H314, H335, H412	<0.6 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

Contents according to 648/2004.

5-<15% Non-ionic surfactants.

<5% Cationic surfactants.

<5% Phosphates.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms occur, call a doctor/physician.

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

Do not use mouth to mouth or mouth to nose resuscitation. Use a suitable device or apparatus to give artificial respiration if breathing has stopped.

Upon breathing in

Bring the injured person out into fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult let trained personnel administer oxygen. Let the injured person rest in a warm place with fresh air and seek medical advice immediately.

Upon eye contact

Remove contact lenses immediately if possible.

Flush immediately with luke-warm water for 15 - 20 minutes with wide-open eyes. Transport the injured person to a hospital immediately.

Important! Also flush during transport to hospital (eye specialist).

Upon skin contact

Remove contaminated clothing.

Wash with large quantities of water (emergency shower) and seek medical assistance.

Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

4.2. Most important symptoms and effects, both acute and delayed**Upon breathing in**

May cause chemical burns in mouth and throat if inhaled, as well as coughing and at high concentrations breathing difficulties.

Upon eye contact

Causes serious eye damage.

Upon skin contact

Chemical burns may occur.

Upon ingestion

Ingestion triggers corrosion in oral cavity and pharynx, nausea and abdominal pain.

May cause irritation of mucous membranes, nausea and vomiting.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

5.2. Special hazards arising from the substance or mixture

Corrosive gases can be spread during fire and substantial heating.

Note that the extinguishing water may be corrosive.

Avoid that water used for extinguishing fire reaches drains. Water used for extinguishing fire should be handled according to current regulations.

5.3. Advice for firefighters

When extinguishing fire, wear total-coverage clothing which protects against corrosive substances.

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use proper breathing apparatus.

Wear full protective clothing.

Contain and collect extinguishing liquid.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Avoid inhalation and exposure to skin and eyes.

Use recommended safety equipment, see section 8.

Keep unauthorized and unprotected people at a safe distance.

Ensure good ventilation.

Evacuate the accident area and call an ambulance, if relevant.

Chemical protection suits should be worn for all salvage and decontamination work.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

Notify rescue services for larger spillage.

6.3. Methods and material for containment and cleaning up

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

Ensure good ventilation after sanitation.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Take the necessary preventive and protective measures for safe handling.
Avoid spillage, inhalation and contact with eyes and skin.
Store this product separately from food items and keep it out of the reach of children and pets.
Take off work clothes and protective gear before meals.
Do not eat, drink or smoke in premises where this product is handled.
Remove contaminated clothing.
Wash your hands after using the product.
Wash contaminated clothing before reuse.
Handle and open container with care.
Use recommended safety equipment, see section 8.
Implement appropriate engineering controls if necessary, see Section 8.
Keep away from incompatible products.

7.2. Conditions for safe storage, including any incompatibilities

Take the necessary preventive and protective measures for safe storage.
The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
Keep out of reach for children.
Store separately from food and animal fodder, incl. utensils or surfaces which have been in contact with these things.
Store in a well-ventilated and locked place.
Do not store above normal room temperature.
Store tightly, in original packaging.
The package should be kept in plastic bins in order to prevent corrosive injuries from spillage.
Do not store close to incompatible materials (see section 10.5).

7.3. Specific end use(s)

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values

2-AMINOETHANOL

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 1 ppm / 2.5 mg/m³

Short term exposure limit (STEL) 3 ppm / 7.6 mg/m³

Note Sk

Explanations of abbreviations are given in Section 16b

DNEL

SODIUM METASILICATE PENTAHYDRATE

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	1.55 mg/m ³
Worker	Chronic Systemic	Dermal	1.49 mg/kg bw
Worker	Chronic Systemic	Inhalation	6.22 mg/m ³
Consumer	Chronic Systemic	Oral	0.74 mg/kg bw
Consumer	Chronic Systemic	Dermal	0.74 mg/kg bw

POTASSIUM PYROPHOSPHATE

	Type of exposure	Route of exposure	Value

Consumer	Chronic Systemic	Inhalation	10.87 mg/m ³
Worker	Chronic Systemic	Inhalation	44.08 mg/m ³

2-AMINOETHANOL

	Type of exposure	Route of exposure	Value
Worker	Chronic Systemic	Dermal	1 mg/kg bw
Worker	Chronic Local	Inhalation	3.3 mg/m ³
Consumer	Chronic Local	Inhalation	2 mg/m ³
Consumer	Chronic Systemic	Oral	3.75 mg/kg bw
Consumer	Chronic Systemic	Dermal	0.24 mg/kg bw

PNEC

SODIUM METASILICATE PENTAHYDRATE

Environmental protection target	PNEC value
Fresh water	7.5 mg/L
Marine water	1 mg/L
Microorganisms in sewage treatment	1000 mg/L

POTASSIUM PYROPHOSPHATE

Environmental protection target	PNEC value
Fresh water	0.05 mg/l
Marine water	0.005 mg/l
Microorganisms in sewage treatment	50 mg/l

2-AMINOETHANOL

Environmental protection target	PNEC value
Fresh water	0.085 mg/L
Freshwater sediments	0.434 mg/kg dw
Marine water	0.0085 mg/L
Marine sediments	0.0434 mg/kg dw
Microorganisms in sewage treatment	100 mg/L
Soil (agricultural)	0.0367 mg/kg dw
Intermittent	0.028 mg/L

8.2. Exposure controls

The risks posed by the product or its constituents must be considered in the task specific risk assessment, in accordance with current working environment legislation. The risk assessment should be reviewed regularly and updated if necessary.

8.2.1. Appropriate engineering controls

The ventilation in the workplace must ensure an air quality that meets the requirements of the current working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at the source. Emergency showers and eye-rinsing facilities must be available at the workplace.

Eye/face protection

Use protective glasses with tight seals according to standard EN166.

Skin protection

Use suitable protective clothing.

Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.

During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes.

The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.

Based on the chemical properties of the product, the following glove materials are recommended (EN 374):.

- Butyl rubber.
- Viton.

Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.

The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.

Based on the physical and chemical properties of the product, the following filter type(s) and/or filter combination(s) are recommended:.

- A.

8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state	liquid
	Form: liquid
(b) Colour	light yellow
(c) Odour	Not indicated
(d) Melting point/freezing point	Not indicated
(e) Boiling point or initial boiling point and boiling range	100 °C
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	Not indicated
(i) Auto-ignition temperature	Not indicated
(j) Decomposition temperature	Not indicated
(k) pH	When supplied, pH is: 13.0
(l) Kinematic viscosity	Not indicated
(m) Solubility	Solubility in water: Soluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	Not indicated
(p) Density and/or relative density	1.050 kg/L
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not indicated

9.2.2. Other safety characteristics

Not indicated

SECTION 10: Stability and reactivity

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Avoid contact with strong acids.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Ingestion may cause burning of the mouth and throat, nausea and vomiting, and can result in decreased general condition and circulatory shock.

Acute toxicity

The product is not classified as acutely toxic.

SODIUM METASILICATE PENTAHYDRATE

LD50 rat 24h: 1152 - 1349 mg/kg Orally

QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE

LD50 rat 24h: 833 mg/kg Orally

POTASSIUM PYROPHOSPHATE

LD50 rabbit 24h: > 7940 mg/kg Dermally

LD50 rat 24h: > 2000 mg/kg Orally

2-AMINOETHANOL

LD50 rabbit 24h: 1025 mg/kg Dermally

LC50 rat 4h: 1.3 mg/l Inhalation

LD50 rat 24h: 1515 mg/kg Orally

Skin corrosion/irritation

The product is corrosive.

Serious eye damage/irritation

Strong irritant with danger of severe eye injury.

Causes severe eye burns.

Respiratory or skin sensitisation

The product is not classified as sensitising.

Germ cell mutagenicity

The product is not classified as mutagen.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as a reproductive toxicant.

STOT-single exposure

Irritation or burns may occur in the respiratory tract if inhaled or ingested.

The criteria for classification cannot be considered fulfilled based on available data.

STOT-repeated exposure

The product is not classified for specific organ toxicity after repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

The product does not have any known endocrine-disrupting properties.

11.2.2. Other information

Not indicated.

SECTION 12: Ecological information

12.1. Toxicity

The product is not to be labelled as a environmental hazard. However, it is not inconceivable that large emissions, or repeated small emissions, can have a harmful effect on the environment.

Prevent release on land, in water and drains.

SODIUM METASILICATE PENTAHYDRATE

EC50 Freshwater water flea (*Daphnia magna*) 96 h: > 247 mg/l

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 1700 mg/L

LC50 Zebra fish (*Brachydanio rerio*) 96h: 210 mg/L

LC50 mosquitofish (*Gambusia affinis*) 96h: > 2320 mg/l

QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE

LC50 Fish 96h: 1 - 100 mg/l

POTASSIUM PYROPHOSPHATE

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: > 100 mg/L

EC50 Freshwater water flea (*Daphnia magna*) 48 h: > 100 mg/L

2-AMINOETHANOL

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 150 mg/l

ErC50 Algae 72h: 22 mg/l

EC50 Freshwater water flea (*Daphnia magna*) 48h: 65 mg/l

12.2. Persistence and degradability

The surfactants used in this product comply with the criteria for biodegradability under Regulation 648/2004.

12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

12.4. Mobility in soil

The product is miscible with water and is therefore variable in soil and water.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

The product does not have any known endocrine-disrupting properties.

12.7. Other adverse effects

The product is alkaline and may elevate pH locally, if released into water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste handling of the product

Avoid discharge into sewers.

Discarded products must be disposed of as hazardous waste in accordance with regulations.

Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.

See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

Classification according to 2008/98/EC

Recommended LoW-code: 20 01 29 detergents containing hazardous substances

SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number or ID number

1719

14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM METASILICATE PENTAHYDRATE)

14.3. Transport hazard class(es)

Class

8: Corrosive substances

Classification code (ADR/RID)

C5: Corrosive substances without subsidiary risk: Basic substances: Inorganic, liquid

Subsidiary risk (IMDG)

No subsidiary risk according to IMDG

Labels



14.4. Packing group

Packing group III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Tunnel restrictions

Tunnel category: E

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Other transport information

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres (ADR 1.1.3.6)

Stowage category A (IMDG)

Emergency Schedule (EmS) for FIRE (IMDG) F-A

Emergency Schedule (EmS) for SPILLAGE (IMDG) S-B

SECTION 15: Regulatory information

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

Not indicated.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

This is the first version

16b. Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

Acute Tox. 4	Acute toxicity (inhal.), Hazard Category 4 - Acute Tox. 4, H332 - Harmful if inhaled
Eye Dam. 1	Serious eye damage/eye irritation, Hazard Category 1 - Eye Dam. 1, H318 - Causes serious eye damage
Met. Corr. 1	Corrosive to metals, Hazard Category 1 - Met. Corr. 1, H290 - May be corrosive to metals
Skin Corr. 1B	Skin corrosion/irritation, Hazard Category 1B - Skin Corr. 1B, H314 - Causes severe skin burns and eye damage
STOT SE 3	Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation -

	STOT SE 3, H335 - May cause respiratory irritation
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2 - Skin Irrit. 2, H315 - Causes skin irritation
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2 - Eye Irrit. 2, H319 - Causes serious eye irritation
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3 - Aquatic Chronic 3, H412 - Harmful to aquatic life with long lasting effects
Skin Corr. 1	Skin corrosion/irritation, Hazard Category 1 - Skin Corr. 1, H314 - Causes severe skin burns and eye damage

Explanations of the abbreviations in Section 8 United Kingdom

Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

Tunnel restriction code: E; Passage through category E tunnels is strictly forbidden

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres (ADR 1.1.3.6)

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2022-03-01.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- 648/2004 REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents
- 2008/98/EC DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

- H302 Harmful if swallowed
- H318 Causes serious eye damage
- H290 May be corrosive to metals
- H314 Causes severe skin burns and eye damage
- H335 May cause respiratory irritation
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H312 Harmful in contact with skin

H332 Harmful if inhaled

H412 Harmful to aquatic life with long lasting effects

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment
Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

Other relevant information

Not indicated

Editorial information



This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se