

Tylö Descaler Pro

Date 2014-09-01

Version 1

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

1.1 Product identifier	Tylö Descaler Pro
1.2 Relevant identified uses of the substance or mixture and uses advised against	Descaling agent Professional use
1.3 Details of the supplier of the safety data sheet	Mico AB
Address	Välingevägen 245 SE-262 92 Ängelholm, SWEDEN
Telephone/Telefax	+46(0)42-362220/+46(0)42-362229
Homepage/E-mail	www.mico.se/info@mico.se
1.4 Emergency telephone number	+46 (0)8-331231 Poison information

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (1999/45/EC)

C; R34

Classification CLP (1272/2008/EC)

Skin corrosion - Category 1B; H314

2.2 Label elements:

Pictogram



Signal Word: Danger

Containing substances:

Phosphoric Acid

Hazard statement Code(s)

H314 Causes severe skin burns and eye damage.

Precautionary statements

(P102) Keep out of reach of children.

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

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/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 or doctor/physician.

2.3 Other hazards

This product is not considered to contain any substances that meet the criteria for classification as PBT or vPvB substances.

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SECTION 3: Composition/information on ingredients

3.2 Chemical composition: Mixture

Components	CAS-No EC-No	Reg-No	Conc. %	Symbol R-phrases*	Hazard Class and Category Code(s)	Hazard statement Code(s)*
Citric Acid	5949-29-1 201-069-1	01-2119457026-42- xxxx	15-30	Xi; R36	Eye Irrit. 2	H319
Phosphoric Acid 85 %	7664-38-2 231-633-2	01-2119485924-24- xxxx	5-10	C; R34	Skin Corr. 1B	H314

* The full text of Risk phrases and Hazard statement Codes are listed under heading 16.

The classification is based on information from the chemical supplier and www.ecb.europa.eu (Databases)

Description of symbols abbreviations

T= Toxic; T+= Very toxic; C= Corrosive; Xn= Harmful; Xi= Irritant; O= Oxidizing; E= Explosive; F= Highly flammable; F+= Extremely flammable; N= Dangerous to the environment

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information

Never give fluids or induce vomiting if patient is unconscious.

Keep person warm and calm. In all cases of doubt, or when symptoms persist, seek medical advice.

Inhalation

Fresh air. Contact a doctor if the complaints persist.

Skin contact

Immediately, take off all contaminated clothing wash with soap and water and rinse the skin thoroughly. Corrosive burns must be treated by a doctor.

Eye contact

Important! Rinse immediately with water for at least 15 minutes. Hold eyelids apart. Go to hospital or eye specialist. If possible, continue to rinse during transport.

Ingestion

Rinse mouth with water and drink several glasses of water. Do not provoke vomiting. Seek medical treatment.

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

Inhalation: May cause asthma-like respiratory difficulty. Coughing, chest tightness, feeling of chest pressure.

Skin contact: Corrosive to the skin and may cause wounds.

Eye contact: Give severe pain and irritation. May severely injure the eyes.

Ingestion: Highly corrosive in the mouth, throat and gastrointestinal tract. Symptoms burning pain, vomiting and stomach pains. Vomiting may aggravate the injury.

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Water spray, fog or mist, foam, powder, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed. Carbon monoxide, carbon dioxide, phosphorus oxides.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and protective clothing.

Additional information

Cool endangered containers with water in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Re-use product if possible. Small quantities may be wiped up with a cloth. (Use chemical-resistant gloves)

Larger spill: Contain spill with inert material. Absorb in vermiculite, dry sand or earth.

Place in container for disposal according to local regulations.

Flush with water.

6.4 Reference to other sections

See section 7 for proper handling and storage.

For personal protection see section 8.

For disposal of spillage, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment.

Avoid contact with eyes and skin.

Read instructions before use.

Normal precautions taken when handling chemicals should be observed.

Comply with the health and safety at work laws.

Provide eyewash station.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool area.

Store in tightly closed original container.

Keep product away from heat, sparks, flames and all other sources of ignition.

7.3 Specific end use(s)

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Appropriate engineering controls

Provide adequate ventilation.

Provide eyewash station.

Swedish limit values or limit values according to the European commission:

Substance	CAS-No	Level limit value	Ceiling limit value	Short time value	Note
Phosphoric Acid	7664-38-2	1 mg/m ³	-	3 mg/m ³	-

PNEC

Citric Acid (5949-29-1)	0,44 mg/l	Freshwater
Citric Acid (5949-29-1)	0,044 mg/l	Seawater
Citric Acid (5949-29-1)	>1000 mg/l	STP

8.2 Exposure controls:

General protective and hygiene measures

Wash hands before breaks and after work. Do not eat or drink during work - no smoking.

Avoid contact with eyes and skin.

The usual precautionary measures for the handling of chemicals have to be observed.

Individual protection measures, such as personal protective equipment:

Always consult a competent person/supplier when selecting personal protective equipment

Respiratory protection

If workplace limits are exceeded, a gasmask approved for this purpose must be worn. Filter type (BE+P3)

Eye protection

Wear tightly fitting protective goggles/ face protection.

Hand protection

Use chemical-resistant gloves. (For example Nitrile, PVC)

Body protection

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Form:	Liquid
Colour:	Colourless
Odour:	Sharp
Odour threshold:	Not available
pH:	1-2
Melting point/freezing point; (°C):	Not available
Initial boiling point and boiling range:	Not available
Flash point(°C):	Not available
Evaporation rate(°C):	Not available
Flammability (solid, gas):	Not available
Upper flammability or explosive limits:	Not available
Lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	>1
Solubility in water:	Soluble
Partition coefficient: n-octanol/water:	Not available

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SECTION 9: Physical and chemical properties (...)

Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2 Other information:

No specific.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions

10.2 Chemical stability

Stable under recommended storage and handling conditions

10.3 Possibility of hazardous reactions

No known.

10.4 Conditions to avoid

Keep away from heat, sparks and open flame.

10.5 Incompatible materials

Strong bases, strong reduction agents and strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, phosphorus oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

See section 4. (Most important symptoms and effects, both acute and delayed)

Acute toxicity

Information about this preparation is not available.

Toxicology data for the containing components:

Citric Acid (5949-29-1)	LD ₅₀ Oral rat: 11700 mg/kg
	LD ₅₀ Dermal rat: >2000 mg/kg
Phosphoric Acid (7664-38-2)	LD ₅₀ Oral rat: 1530 mg/kg

Effects of chronic exposure

No known.

Routes of exposure

Eyes and skin, ingestion, inhalation.

Allergenic potential

The product is not classified as allergenic by inhalation or skin contact.

Carcinogenicity, mutagenicity and toxicity for reproduction

This product do not contain any substances classified as carcinogen, mutagen and toxic for reproduction.

Other information

None.

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SECTION 12: Ecological information

This product is not classified as dangerous for the environment.
Do not flush into surface water or sanitary sewer system.

12.1 Toxicity

Information about this preparation is not available.

Toxicology data for the containing components:

Citric Acid (5949-29-1)

LC₅₀ Fish 96h: 440 – 706 mg/l

Phosphoric Acid (7664-38-2)

Phosphoric Acid could cause acute effects and corrosive damage, to aquatic organisms.

12.2 Persistence and degradability

Citric Acid (5949-29-1) - Readily biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential . - Citric Acid (5949-29-1)

12.4 Mobility in soil

Soluble in water.

12.5 Results of PBT and vPvB assessment

This product is not considered to contain any substances that meet the criteria for classification as PBT or vPvB substances.

12.6 Other adverse effects

There is a possibility that this product could locally decrease the pH in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

This product or residues of this product are classified as hazardous waste.
Dispose of in accordance with local authority requirements.

EWC suggestions for waste:

20 01 29* Detergents containing dangerous substances.

Disposal of Packaging

Well cleaned packaging could be left for recycling

SECTION 14: Transport information

14.1 UN number

1760

14.2 UN proper shipping name (IMDG,IATA/ICAO):

CORROSIVE LIQUID N.O. S (PHOSPHORIC ACID)

14.3 Transport hazard class(es)

8

14.4 Packing group

III

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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SECTION 14: Transport information (...)

Tunnel restriction code

(E)

LQ

5L

SECTION 15: Regulatory information

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

Classification according to CLP (1272/2008/EC).

15.2 Chemical safety assessment

None.

SECTION 16: Other information

The full text of Risk phrases and Hazard statement Codes listed under section 3:

R34 Causes burns.

R36 Irritating to eyes.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

Classification comments

This product is classified as corrosive because of its low pH-value.

The user of this product must decide if the information in this safety data sheet is sufficient for which the product will be used.

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Safety data sheet according to Regulation (EC) No. 1907/2006 and (EG) 453/2010.

Sources

Safety data sheet provided by the manufacturer. CLP-regulation

www.kemi.se (Databases), AFS 2011:18, www.ecb.europa.eu (Databases).

Abbreviations explanations

ADR: International Carriage of Dangerous Goods by Road

BCF: Bio Concentration Factor

CAS-nr: Chemical Abstracts Service number

EC₅₀: Effect Concentration

EG-nr: A substance number i EINECS, ELINCS or in No-Longer Polymers List.

IMDG: International Maritime Dangerous Goods Code.

LC₅₀: Lethal Concentration

LD₅₀: Lethal Dose

IC₅₀: Median Inhibition Concentration

NOEC: No Observed Effect Concentration

PBT-substance: Persistent, Bio accumulative and Toxic substances.

vPvB-substance: Very persistent and Very Bio accumulative substances.