

# Material Safety Data Sheet

Completed 12-12-2014  
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SDS version 1.8

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

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### 1.1. Product Identifier

Trade Name: Super 1 Alka  
Product- no.: -

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

**Recommended uses:**

Alkaline rough cleaner.

**Uses advised against:**

This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

### 1.3. Details of the supplier of the safety data sheet

**Company and address:**

Carl Jensens Marinelager Aps  
Olfert Fischersvej 8  
DK- 9850 Hirtshals  
Tlf: + 45 98 94 11 29

**Contact person and E-mail:**

Jakup Jacobsen, jmj@carljensens.dk

**The Safety data sheet is completed and validated by:**

Mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: KN

### 1.4. Emergency telephone number

NHS: 111

Use your national or local emergency number - See section 4 "First aid measures".

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## SECTION 2: Hazards identification

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### 2.1. Classification of the substance or mixture

CLP (1272/2008):  
Skin Corr. 1;H314

See full text of H-phrases in section 16.

### 2.2. Label elements



**Signal word:**

Danger

Causes severe skin burns and eye damage. (H314)

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor. (P303 + P361 + P353 + P310)

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

Dispose of contents/container in accordance with local regulation. (P501)

### 2.3. Other hazards

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## Additional labelling:

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## Additional warnings

The product is classified based on the rule regarding extreme pH-values.

## SECTION 3: Composition/information on ingredients

### 3.1/3.2. Substances/Mixtures

Substance	EU-Index no. / REACH-Reg. no.	CAS-no.	EINECS-no.	CLP-classification	Wt/Wt %	Note
Tetra potassium pyrophosphate	- / -	7320-34-5	230-785-7	Eye Irrit. 2;H319	10-20	-
Sodium metasilicate x 5H <sub>2</sub> O	- / -	10213-79-3	600-279-4	Skin Corr. 1B;H314, STOT SE 3;H335	1-7	-
C9-11 Alcholethoxylate	- / -	68439-46-3	-	Eye Dam. 1;H318	1-5	-
Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride	- / -	1554325-20-0	810-152-7	Acute tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318	1-5	-

See full text of H-phrases in section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

In case of discomfort: Seek fresh air.  
Seek medical advice in case of persistent discomfort.

#### Ingestion:

Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.  
Do not induce vomiting.  
Seek medical advice immediately.

#### Skin contact:

Immediately remove contaminated clothing.  
Wash the skin thoroughly with water and continue washing for a long time.  
Seek medical advice immediately.

#### Eye contact:

Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.

#### Additional information:

When obtaining medical advice, show the safety data sheet or label.

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

Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are inhaled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing. Corrosive substances cause irreversible damage to eyes and acid burns to skin.

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

Show this safety data sheet to the doctor in attendance.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Extinguish with powder, foam, carbon dioxide or water mist.  
Do not use water stream, as it may spread the fire.

### 5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes – seek fresh air.  
Hazardous fumes are formed in fire conditions.  
Exposure to decomposition products may cause a health hazard.  
Use water to cool containers exposed to fire.

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## 5.3. Advice for firefighters

Send contaminated extinguishing water for destruction.

Extinguishing water which has been in contact with the product may be corrosive.

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

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## SECTION 6: Accidental release measures

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### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for type of protective equipment.

Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

Prevent spillage from entering drains and/or surface water.

### 6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers.

Caution! Causes burns.

Rinse with water.

### 6.4. Reference to other sections

See section 8 for type of protective equipment.

See section 13 for instructions on disposal.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

See section 8 for information about precautions for use and personal protective equipment.

Use the product under well-ventilated conditions.

Running water and eye wash equipment must be available.

### 7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc.

Store frost-free.

Store in a dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

See application section 1.

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## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Fourth Edition 2020):

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#### DNEL/PNEC-values:

##### DNEL Tetra potassium pyrophosphate

	Workers	Consumers
Inhalation - Chronic Systemic	10.7 mg/m <sup>3</sup>	4.57 mg/m <sup>3</sup>
Inhalation - Chronic Local	-	0.36 mg/m <sup>3</sup>
Oral - Chronic Systemic	-	0.1 mg/kg bw/day

##### DNEL Sodium metasilicate x 5H<sub>2</sub>O

	Workers	Consumers
Inhalation - Chronic Systemic	3.11 mg/m <sup>3</sup>	0.466 mg/m <sup>3</sup>
Dermal - Chronic Systemic	0.882 mg/kg bw/day	0.315 mg/kg bw/day
Oral - Chronic Systemic	-	0.315 mg/kg bw/day
Oral - Acute Systemic	-	0.315 mg/kg bw/day

##### DNEL C9-11 Alcoholethoxylate

	Workers	Consumers
Inhalation - Chronic Systemic	294 mg/m <sup>3</sup>	87 mg/m <sup>3</sup>
Inhalation - Acute Systemic	294 mg/m <sup>3</sup>	-
Dermal - Chronic Systemic	2080 mg/kg bw/day	1250 mg/kg bw/day
Oral - Chronic Systemic	-	25 mg/kg bw/day
Oral - Acute Systemic	-	25 mg/kg bw/day

##### PNEC Sodium metasilicate x 5H<sub>2</sub>O

Fresh water	0.16 mg/L
Marine water	0.016 mg/L

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## PNEC C9-11 Alcoholethoxylate

Fresh water	0,104 mg/L
Intermittent releases (Fresh water)	0,014 mg/L
Marine water	0,104 mg/L
Soil	1 mg/kg soil dw

### 8.2. Exposure controls

There are no exposure scenarios for this product.

#### Appropriate engineering controls:

Wear the personal protective equipment specified below.  
Wash hands before breaks, before using restroom facilities, and at the end of work.  
Do not eat, drink or smoke when using this product.

#### Personal protective equipment:



#### Respiratory protection:

Generally not required.  
In case of insufficient ventilation, wear respiratory protective equipment with filter P2.

#### Hand protection:

Wear protective gloves made of nitrile rubber.

#### Eye/face protection:

Wear safety goggles/face protection.

#### Skin protection:

Special work clothing should be used.

#### Environmental exposure controls:

Ensure compliance with local regulations for emissions.

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## SECTION 9: Physical and chemical properties

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### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Red
Odour:	Perfumed odour
Melting point/ Freezing Point (°C):	-
Boiling point or initial boiling point and boiling range (°C):	100
Flammability:	-
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
pH:	13.1 (ready for use 11)
Kinematic viscosity (mm <sup>2</sup> /s):	-
Solubility:	Soluble in water
Partition coefficient n-octanol/water (log value)	-
Vapour pressure:	-
Density and/or relative density:	1.01
Relative vapour density:	-
Particle characteristics:	-

### 9.2. Other information

None.

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## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

No data.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

None known.

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## 10.4. Conditions to avoid

Avoid heating.

## 10.5. Incompatible materials

Avoid contact with strong bases.

Avoid contact with strong oxidising agents.

Avoid contact with strong reducing agents.

Avoid contact with strong acids.

## 10.6. Hazardous decomposition products

No special precautions regarding contact with other materials at the recommended storage conditions.

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## SECTION 11: Toxicological information

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

#### **Acute toxicity:**

Based on the existing data, the classification is not met.

Substance	exposure	Species	Test	Result
Tetra potassium pyrophosphate	Oral	Rat	LD50	2440 mg/kg bw
Tetra potassium pyrophosphate	Inhalation	Rat	LC50/ 4 Hours	> 1,1 mg/L air
Tetra potassium pyrophosphate	Dermal	Rabbit	LD50	> 2000 mg/kg bw
C9-11 Alcholethoxylate	Oral	Rat	LD50	3488 mg/kg bw
C9-11 Alcholethoxylate	Inhalation	Rat	LC50/ 6 Hours	> 100 mg/m <sup>3</sup> air
C9-11 Alcholethoxylate	Dermal	Rabbit	LD50	2000 mg/kg bw

#### **Skin corrosion/irritation:**

Has a corrosive effect and causes burning pain, reddening, blisters and burns.

May cause burns to mouth, gullet and stomach. Pains in mouth, throat and stomach. Difficulty in swallowing, indisposition and bloody vomit. Brown spots and burns may appear in and around the mouth.

#### **Serious eye damage/irritation:**

May cause severe burns, pain, tearing and cramp of the eyelids. Risk of serious damage to eyes and loss of vision.

#### **Respiratory or skin sensitisation:**

Based on the existing data, the classification is not met.

#### **Germ cell mutagenicity:**

Based on the existing data, the classification is not met.

#### **Carcinogenicity:**

Based on the existing data, the classification is not met.

#### **Reproductive toxicity:**

Based on the existing data, the classification is not met.

#### **STOT-single exposure:**

Based on the existing data, the classification is not met.

#### **STOT-repeated exposure:**

Based on the existing data, the classification is not met.

#### **Aspiration hazard:**

Based on the existing data, the classification is not met.

### 11.2. Information on other hazards

Test data are not available.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Test duration	Species	Test	Result
Tetra potassium pyrophosphate	96 Hours	Fish	LC50	> 100 mg/L
Tetra potassium pyrophosphate	48 Hours	Daphnia	EC50	> 100 mg/L
Tetra potassium pyrophosphate	72 Hours	Algae	EC50	> 100 mg/L
C9-11 Alcholethoxylate	96 Hours	Fish	LC50	5 - 7 mg/L
C9-11 Alcholethoxylate	48 Hours	Daphnia	EC50	2,5 mg/L
C9-11 Alcholethoxylate	96 Hours	Algae	EC50	1,4 mg/L

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Tetra potassium	Yes	OECD Guideline 301 F	28 Days 77,05%

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
Sodium metasilicate x C9-11	No	-1.7
Alcholethoxylate	Yes	3,74

### 12.4. Mobility in soil

Test data are not available.

### 12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for PBT or vPvB.

### 12.6. Endocrine disrupting properties

Test data are not available.

### 12.7. Other adverse effects

The product affects the pH value of the local aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC-Code	Description
20 01 29	Detergents containing hazardous substances

### Specific labelling:

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### Contaminated packaging:

Empty packaging and residues must be disposed of through the municipal waste collection service for hazardous waste.

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## SECTION 14: Transport information

The product is covered by the rules for transport of dangerous goods.

### 14.1 -14.4.

#### ADR

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
1719	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium metasilicate x 5H <sub>2</sub> O)	8	II

#### IMDG/IATA

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
1719	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium metasilicate x 5H <sub>2</sub> O)	8	II

### 14.5. Environmental hazards

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### 14.6. Special precautions for user

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### 14.7. Maritime transport in bulk according to IMO instruments

Not relevant.

## SECTION 15: Regulatory information

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

#### Sources:

EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### Additional labelling:

#### Declaration in accordance to the EU regulation no. 648/2004:

Less than 5%:

Cationic surfactants

Non-ionic surfactants

#### Restrictions for application:

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. Young people above 15 years are exempted this rule, if the product is a part of an education/training.

#### Demands for specific education:

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### 15.2. Chemical safety assessment

None.

## SECTION 16: Other information

According to EU regulation 1907/2006 (REACH)

#### Other information:

##### Sources:

EC regulation 1907/2006 (REACH), with amendments.

EC Regulation 1272/2008 (CLP), with amendments.

EU regulation no. 276/2010

Directive 2000/532/EC

ECHA - The European Chemicals Agency

#### Full text of H-phrases as mentioned in section 2+3:

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.

#### Classification according to Regulation (EC) Nr. 1272/2008:

Skin Corr. 1;H314 Expert judgement

# Material Safety Data Sheet

## **Abbreviations and acronyms used in the safety data sheet:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS-Number.: Chemical Abstracts Service number.

EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).

DNEL: Derived No Effect Level.

PNEC(s): Predicted No Effect Concentration(s).

STOT: Specific Target Organ Toxicity.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50: Lethal Concentration to 50 % of a test population.

EC50: The effective concentration of substance that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.

NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

## **Other:**

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

## **Minor changes have been made in following sections:**

General update.

## **This material safety data sheet replaces version:**

1.7