

# MATERIAL SAFETY DATA SHEET

Hejdå Kalk

Issued: 2011-08-25

Version: 1

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### PRODUCT IDENTIFIER

Hejdå Kalk

### ARTICLE NUMBER

34-9837

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST  
Limescale remover.

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Supplier:** Clas Ohlson  
**Address:** SE-793 85 Insjön, Sweden  
**Telephone:** +46 (0)247-444 00  
**Fax:** +46 (0)247-444 25  
**Contact:** Ellinor Wickström  
**E-mail:** [ellinor.wickstrom@clasohlson.se](mailto:ellinor.wickstrom@clasohlson.se)  
**Webpage:** [www.clasohlson.se](http://www.clasohlson.se)

### EMERGENCY TELEPHONE NUMBER

National Poisons Information Service (London Centre): (local) 0870 600 6266 or +44 20 7771 5394  
Email: [npis@gstt.sthames.nhs.uk](mailto:npis@gstt.sthames.nhs.uk)

## 2. HAZARDS IDENTIFICATION

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

### LABEL ELEMENTS

#### CLASSIFICATION ACCORDING TO CLP (DIRECTIVE 1272/2008/EC)

##### Hazard pictogram(s)



##### Signal word(s)

Warning

##### Hazard statement(s)

H319 - Causes serious eye irritation.

##### Precautionary statement(s)

P102 - Keep out of reach of children.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/eye protection.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 - If eye irritation persists: Get medical advice/attention.

##### Other information

-

#### CLASSIFICATION ACCORDING TO DPD/DSD (DIRECTIVE 1999/45/EC and 67/548/EC)

##### Hazard symbol(s)

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IRRITATING

## R-phrase(s)

R36 - Irritating to eyes.

## S-phrase(s)

S2 - Keep out of the reach of children.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 - Wear suitable gloves and eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or label.

## Other information

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## OTHER HAZARDS

-

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Composition according to CLP (Directive 1272/2008/EC)

Substance	EC no	Reg no	CAS no	%	Pictogram	H-phrases*	Category
Water	231-791-2	-	7732-18-5	60-80 %	-	-	-
Citric acid (hydrated)	201-069-1	-	5949-29-1	30-60 %	GHS07 Warning	H319	Eye Irrit. 2
1-Propanesulfonic acid, 3-chloro-2-hydroxy-, monosodium salt, reaction products with 2-heptyl-4,5-dihydro-1H-imidazole-1-ethanol	271-863-0	-	68610-39-9	1-10 %	GHS07 Warning	H315 H319	Skin Irrit. 2 Eye Irrit. 2
2-Butenedioic acid (Z), ammonium salt, homopolymer, hydrolyzed, sodium salts	-	-	181828-06-8	1-10 %	-	-	-
Alcohols, C12-14, ethoxylated propoxylated	614-484-1	-	68439-51-0	<1 %	-	-	-
Alcohols, C10-12, ethoxylated propoxylated	-	-	68154-97-2	<1 %	GHS07 Warning	H319	Eye Irrit. 2

\* For full wording of hazard statement(s) see section 16.

### Composition according to DPD/DSD (Directive 1999/45/EC and 67/548/EC)

Substance	EC no	CAS no	%	Symbol(s)	R-phrases*
Water	231-791-2	7732-18-5	60-80 %	-	-
Citric acid (hydrated)	201-069-1	5949-29-1	30-60 %	Xi	R36
1-Propanesulfonic acid, 3-chloro-2-hydroxy-, monosodium salt, reaction products with 2-heptyl-4,5-dihydro-1H-imidazole-1-ethanol	271-863-0	68610-39-9	1-10 %	Xi	R36/38
2-Butenedioic acid (Z), ammonium salt, homopolymer, hydrolyzed, sodium salts	-	181828-06-8	1-10 %	-	-

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Alcohols, C12-14, ethoxylated propoxylated	614-484-1	68439-51-0	<1 %	-	-
Alcohols, C10-12, ethoxylated propoxylated	-	68154-97-2	<1 %	Xi	R36

\* For full wording of R-phrase(s) see section 16.

## 4. FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES

#### GENERAL RECOMMENDATION

Keep the victim warm and calm. Never give anything to eat or drink to an unconscious person. If uncertain or if symptoms remain, consult a doctor. Show this MSDS to medical personnel.

#### AFTER INHALATION

Supply fresh air and rest. Consult a doctor if symptoms remain.

#### AFTER SKIN CONTACT

Rinse with soap and water. Consult a doctor if symptoms remain.

#### AFTER EYE CONTACT

Rinse opened eye for at least 5 minutes under running water. Keep eyelids apart. Remove contacts if present. Consult a doctor if symptoms remain.

#### AFTER INGESTION

Drink a few glasses of water or milk if patient is fully conscious. Do not induce vomiting. Consult a doctor if symptoms develop.

#### MOST IMPORTANT SYMPTOMS AND EFFECT, BOTH ACUTE AND DELAYED

Causes serious eye irritation.

#### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Emergency eye wash should be available in the workplace.

## 5. FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA

Foam, powder, carbon dioxide (CO<sub>2</sub>) or water fog.

### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product is not flammable. Fumes containing oxides of carbon, nitrogen and sulphur can develop in case of fire.

### ADVICE FOR FIREFIGHTERS

Wear protective equipment suitable for chemical fires, including breathing apparatus. Try to prevent fire extinguishing media to reach ground water, water course or sewage system.

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use protective equipment according to section 8 of this MSDS. Avoid contact with skin and eyes.

### ENVIRONMENTAL PRECAUTIONS

Do not allow to enter sewers/surface or ground water. Inform the emergency services in case of larger spills.

### METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Contain any spilled material by absorbing it in vermiculite, dry sand or earth and place into labelled containers for disposal (see Section 13).

### REFERENCE TO OTHER SECTIONS

Refer to section 8 and 13 of this MSDS for information on protective equipment and waste handling.

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Use personal protective equipment, see Section 8. Avoid contact with skin and eyes.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store at room temperature in tightly closed containers. Protect from extreme low and high temperatures.

### SPECIFIC END USE(S)

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See EWC code in section 13 of this MSDS.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### CONTROL PARAMETERS

#### OCCUPATIONAL EXPOSURE LIMIT VALUES (ACCORDING TO DIRECTIVES 91/322/EEG, 2000/39/EG AND 2006/15/EG)

No values apply to the product.

#### PNEC

No data available.

#### DNEL

No data available.

### EXPOSURE CONTROLS

Ensure good ventilation. Arrange for eye wash possibility.

### RESPIRATORY PROTECTION

Normally not necessary.

### HAND PROTECTION

Use gloves if repeated or prolonged contact is expected. Break-through times can vary depending on thickness, use and source. Change gloves regularly. Contact your supplier of protective equipment for more information.

### EYE/FACE PROTECTION

Wear safety glasses or goggles.

### SKIN PROTECTION

Work wear.

### HYGIENE MEASURES

No food, drinks or smoking at the workplace. Remove all contaminated clothes. Wash hands and/or face before breaks and at the end of the workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear low-viscosity liquid
<b>Colour</b>	Light yellow/brown
<b>Odour</b>	Characteristic
<b>Solubility</b>	Soluble in water
<b>pH</b>	Ca 1-2 in concentrate
<b>Melting point</b>	Ca 0 °C
<b>Boiling point</b>	>100 °C
<b>Flash point</b>	>150 °C
<b>Density</b>	Ca 1,08 g/cm <sup>3</sup> vid 20 °C
<b>Viscosity</b>	<10 cP vid 20 °C

### OTHER INFORMATION

Note: These are typical values and do not constitute a specification.

## 10. STABILITY AND REACTIVITY

### REACTIVITY

Stable product under normal conditions of handling and storage.

### CHEMICAL STABILITY

Stable product under normal conditions of handling and storage.

### POSSIBILITY OF HAZARDOUS REACTIONS

Stable product under normal conditions of handling and storage.

### CONDITIONS TO AVOID

Low temperatures.

### INCOMPATIBLE MATERIALS

Avoid contact with strong alkaline solutions.

### HAZARDOUS DECOMPOSITION PRODUCTS

Fumes containing oxides of carbon, nitrogen and sulphur can develop in case of fire.

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## 11. TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

	ACUTE EFFECTS	CHRONIC EFFECTS
<b>SKIN CONTACT</b>	Repeated exposure may cause skin dryness.	-
<b>EYE CONTACT</b>	Causes serious eye irritation.	-
<b>INHALATION</b>	-	-
<b>INGESTION</b>	May cause irritation in the mouth, throat and stomach. Ingestion of large amounts may cause nausea and vomiting.	-

### ACUTE TOXICITY

#### TOXICOLOGICAL DATA FOR THE PRODUCT AS IS

No data available.

#### TOXICOLOGICAL DATA FOR INCLUDED COMPONENTS

No data available.

### IRRITATION

Causes serious eye irritation.

### CORROSIVITY

No corrosive effects known.

### SENSITIZATION

No sensitizing effect known.

### TOXICITY - REPEATED EXPOSURE

No toxicity by repeated exposure known.

### CARCINOGENICITY

No carcinogenicity known.

### MUTAGENICITY

No mutagenicity known.

### TOXICITY FOR REPRODUCTION

No toxicity for reproduction known.

### INTERACTIVE EFFECTS

No interactive effects known.

### MISSING DATA

-

## 12. ECOLOGICAL INFORMATION

### TOXICITY

Not classified as toxic to the aquatic environment.

#### ECOLOGICAL DATA FOR THE PRODUCT AS IS

No data available.

#### ECOLOGICAL DATA FOR INCLUDED COMPONENTS

##### Citric acid (hydrated)

Bioaccumulation: Log  $P_{ow}$ : 0 (no bioaccumulation)

Biodegradation: >70 % degraded in 28 days OECD 301D

Golden orfe LC50 760 mg/l

##### Alcohols, C12-14, ethoxylated propoxylated

Bioaccumulation: BCF: 776,25 and Log  $P_{ow}$ : 5,96 (may bioaccumulate)

### PERSISTENCE AND DEGRADABILITY

Expected to be readily biodegradable.

### BIOACCUMULATIVE POTENTIAL

Not expected to bioaccumulate.

### MOBILITY IN SOIL AND WATER

Soluble in water.

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## RESULTS OF PBT AND vPvB ASSESSMENT

Does not fulfil the criteria for classification as PBT or vPvB.

## OTHER ADVERSE EFFECTS

No other adverse effects known.

## SUMMARY

The product is not classified as toxic to aquatic organisms. However, do not allow large amounts of the product to reach ground water, water courses or sewage systems.

## 13. DISPOSAL CONSIDERATIONS

### SURPLUS/UNUSED PRODUCT

Unused product is hazardous waste according to directive 2000/532/EC.

Suggestion of EWC codes:

07 06 04 - Other organic solvents, washing liquids and mother liquors.

### WASTE

Waste is classified as hazardous waste and should be taken care of in conformity with national and local regulations.

### WASTE TREATMENT METHODS

Hazardous waste and should be taken care of in conformity with national and local regulations.

### CONTAMINATED PACKAGING

Contaminated packaging is considered hazardous waste and should be taken care of in conformity with national and local regulations.

## 14. TRANSPORT INFORMATION

Not classified as dangerous goods according to ADR/RID/IMO/DGR.

## 15. REGULATORY INFORMATION

### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Material safety data sheet and classification in accordance with CLP (directive 1272/2008/EC and directive 453/2010/EC, appendix I) and DPD/DSD (directives 1999/45/EC and 67/548/EC).

### CHEMICAL SAFETY ASSESSMENT

A Chemical safety assessment is established for the product.

## 16. OTHER INFORMATION

### H PHRASES GIVEN UNDER SECTION 3 IN PLAIN TEXT

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

### R PHRASES GIVEN UNDER SECTION 3 IN PLAIN TEXT

R36 - Irritating to eyes.

R36/38 - Irritating to eyes and skin.

### LEGEND TO ABBREVIATIONS

-

### LITERATURE REFERENCES AND SOURCES FOR DATA

Refer to chemical safety assessment (CSA) for sources.

### CHANGES MADE IN CASE OF REVISIONS

Version 1 (2011-08-25): First edition.

### OTHER

The current Material Safety Data Sheet was defined by Clas Ohlson on the basis of knowledge of the product at the date of issue.

It is the duty of the operator

- to develop under his own responsibility, the safety dispositions regarding the operation of the product taking into account the data from this form

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- to pass to all users and operators the appropriate safety data and warning regarding the risks mentioned in the documentation relative to the utilisation of the product
- to be cautious of possible risks faced when the product is used for other utilisation than those for which it has been designed

This SDS has been compiled with assistance from Amasis Konsult AB, Solna, Sweden.