

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

4 i 1 Dishwash tabs

Product no.

DW3810

REACH registration number

Not applicable

Other means of identification

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

Relevant identified uses of the substance or mixture

Dishwasher detergent

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

danlind as
Lægårdvej 90-94
7500 Holstebro
Danmark
Tlf.: +45 99923000

Contact person

Claudia Nagy

E-mail

safety@danlind.dk

SDS date

11-09-2014

SDS Version

1.0

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Eye Irrit. 2 // H319

See full text of H/R-phrases in section 2.2.

DPD/DSD Classification

Irritant. (Xi).

Risk of serious damage to eyes.(R41).

2.2. Label elements

Hazard pictogram(s)**Signal word**

Warning!

Hazard statement(s)

Causes serious eye irritation. (H319)

Identity of the substances primarily responsible for the major health hazards

Safety statement(s)	<p>General</p> <p>Prevention Response</p> <p>Storage Disposal</p>	<p>If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)</p> <p>-</p> <p>IF SWALLOWED: rinse mouth. Do NOT induce vomiting. (P301+P330+P331) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) If eye irritation persists: Get medical advice/attention. (P337+P313)</p> <p>-</p> <p>-</p>
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2.3. Other hazards

Additional labelling

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Additional warnings

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VOC

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SECTION 3: Composition/information on ingredients

3.1/3.2. Substances

<p>NAME:</p> <p>IDENTIFICATION NOS.:</p> <p>CONTENT:</p> <p>DSD CLASSIFICATION:</p> <p>CLP CLASSIFICATION:</p>	<p>sodium carbonate</p> <p>CAS-no: 497-19-8 EC-no: 207-838-8 REACH-no: 01-2119485498-19 Index-no: 011-005-00-2</p> <p>40-60%</p> <p>Xi; R36</p> <p>Eye Irrit. 2</p> <p>H319</p>
<p>NAME:</p> <p>IDENTIFICATION NOS.:</p> <p>CONTENT:</p> <p>DSD CLASSIFICATION:</p> <p>CLP CLASSIFICATION:</p>	<p>disodium carbonate, compound with hydrogen peroxide (2:3)</p> <p>CAS-no: 15630-89-4 EC-no: 239-707-6 REACH-no: 01-2119457268-30 Index-no: -</p> <p>5-15%</p> <p>O;R8 Xn;R22 Xi;R41</p> <p>Ox. Sol./Sol 3, Acute Tox. 4, Eye Dam. 1</p> <p>H272, H302, H318</p>
<p>NAME:</p> <p>IDENTIFICATION NOS.:</p> <p>CONTENT:</p> <p>DSD CLASSIFICATION:</p> <p>CLP CLASSIFICATION:</p>	<p>Sodium disilicate</p> <p>CAS-no: 13870-28-5 EC-no: 237-623-4 REACH-no: 01-2119485031-47-0000 Index-no: -</p> <p>1-5%</p> <p>Xi;R41</p> <p>Eye Dam. 1</p> <p>H318</p>

(*) See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.

Other informations

Detergent:
 5 - 15%: OXYGEN-BASED BLEACHING AGENTS
 0 - 5%: POLYCARBOXYLATES, NON-IONIC SURFACTANTS, ENZYMES

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never

give an unconscious person water or similar.

Inhalation

Get the person into fresh air and stay with them.

Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Contact a doctor at once.

Ingestion

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

Burns

Rinse with water until the pain stops and continue for 30 minutes.

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

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Some metal oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

6.2. Environmental precautions

No specific requirements.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

6.4. Reference to other sections

See section on "Disposal considerations" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, consumption of food or liquid, and storage of tobacco, food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

No data available.

7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

No data available

DNEL / PNEC

DNEL (disodium carbonate, compound with hydrogen peroxide (2:3)): 12,8 mg/cm² - Exposure: Dermal - Duration: Short term – Local effects - Workers
DNEL (disodium carbonate, compound with hydrogen peroxide (2:3)): 5 mg/m³ - Exposure: Inhalation - Duration: Long term – Local effects - Workers
DNEL (disodium carbonate, compound with hydrogen peroxide (2:3)): 6,4 mg/cm² - Exposure: Dermal - Duration: Short term – Local effects - General population
DNEL (Sodium disilicate): 318 mg/kg/bw/day - Exposure: Dermal - Duration: Long term – Systemic effects - Workers
DNEL (Sodium disilicate): 11,12 mg/m³ - Exposure: Inhalation - Duration: Long term – Systemic effects - Workers
DNEL (Sodium disilicate): 159 mg/kg/bw/day - Exposure: Dermal - Duration: Long term – Systemic effects - General population
DNEL (Sodium disilicate): 2,39 mg/m³ - Exposure: Inhalation - Duration: Long term – Systemic effects - General population
DNEL (Sodium disilicate): 1,59 mg/kg/bw/day - Exposure: Oral - Duration: Long term – Systemic effects - General population

PNEC (disodium carbonate, compound with hydrogen peroxide (2:3)): 0,035 mg/l - Exposure: Freshwater
PNEC (disodium carbonate, compound with hydrogen peroxide (2:3)): 0,035 mg/l - Exposure: Marine water
PNEC (Sodium disilicate): 7,5 mg/l - Exposure: Freshwater
PNEC (Sodium disilicate): 7,5 mg/l - Exposure: Marine water
PNEC (Sodium disilicate): 29,4 mg/kg - Exposure: Freshwater sediment
PNEC (Sodium disilicate): 29,4 mg/kg - Exposure: Marine water sediment
PNEC (Sodium disilicate): 1,47 mg/ kg dw - Exposure: Soil
PNEC (Sodium disilicate): 28 mg/l - Exposure: Sewage Treatment Plant

8.2. Exposure controls

No control is necessary if the product is used in a normal way.

General recommendations

Observe general occupational hygiene.

Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

Exposure limits

There are no maximum exposure limits for the substances contained in this product.

Appropriate technical measures

Take ordinary precautions when using the product. Avoid inhalation of gas or dust.

Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment



Generally

Only CE-marked personal protection equipment should be used. Use only CE marked protective equipment.

Respiratory Equipment

No specific requirements.

Skin protection

Special work clothing should be used.

Hand protection

Use protective gloves. The concrete work situation is not known. Contact the suppliers of the gloves for help on the glove type. Please note that elastic gloves stretch when used. The thickness of the gloves, and therefore their penetration time, will be reduced. Moreover, the temperature of the glove in use is about 35°C, while the standard test, EN 374-3, is done at 23°C. The penetration time is therefore reduced by a factor of 3.

Eye protection

Use face shield. Use safety glasses with a side shield as an alternative.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm ³)
	White	None	11,0	-	-

Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-

Explosion limits (Vol %)	Oxidizing properties
-	-

Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

9.2. Other information

Solubility in fat	Additional information
-	N/A

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidising agents, and strong catabolic agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
sodium carbonate	Rabbit	LD50	Dermal	> 2000 mg/kg
sodium carbonate	Rat	LD50	Oral	2800 mg/kg
disodium carbonate, compound	Rat	LD50	Oral	1034 mg/kg
w...	Rat	LD50	Oral	2507 mg/kg
Sodium disilicate				

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

Data on substance: bentonit

Data on substance: bentonit

Long term effects

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Test duration	Result
sodium carbonate	Fish	LC50	96 h	300 mg/l
sodium carbonate	Crustacean	EC50	48 h	200-227 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
No data available.			

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
No data available.			

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

This product contains ecotoxic substances which can have damaging effects on water-organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Waste

EWC code

-

Specific labelling

-

Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

SECTION 14: Transport information

Not listed as dangerous goods under ADR and IMDG regulations.

14.1 – 14.4

ADR/RID	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group	Notes
IMDG	UN-no.	Proper Shipping Name	Class	PG*	EmS MP** Hazardous constituent

IATA/ICAO	UN-no.	Proper Shipping Name	Class	PG*
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14.5. Environmental hazards

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14.6. Special precautions for user

-

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

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

-

Demands for specific education

-

Additional information

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.

15.2. Chemical safety assessment

No

SECTION 16: Other information'

Sources

EC regulation 1907/2006 (REACH)

Directive 2000/532/EC

EC Regulation 1272/2008 (CLP)

Full text of H/R-phrases as mentioned in section 3

R8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

R36 - Irritating to eyes.

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

R50 - Very toxic to aquatic organisms.

H272 - May intensify fire; oxidiser.

H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

Other symbols mentioned in section 2

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Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

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.

According to EC-Regulation 1907/2006 (REACH)



A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

The safety data sheet is validated by

CNA

Date of last essential change

(First cipher in SDS version)

-

Date of last minor change

(Last cipher in SDS version)

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