SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
DW30308
Product no.
DW30308
REACH registration number
Not applicable

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 99920300
Contact person
Claudia Nagy
E-mail
safety@danlind.dk
SDS date
2017-03-09
SDS Version
1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). 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-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

Signal word
Warning
Hazard statement(s)
Causes serious eye irritation. (H319)

Safety statement(s)

General	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
Prevention	-
Response	If eye irritation persists: Get medical advice/attention. (P337+P313). 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).
Storage	-
Disposal	-

Identity of the substances primarily responsible for the major health hazards

-

2.3. Other hazards

-

Additional labelling

Contains subtilisin. May produce an allergic reaction. (EUH208).

Additional warnings

CLP classified by the calculation method

VOC

-

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	Sodium carbonate
IDENTIFICATION NOS.:	CAS-no: 497-19-8 EC-no: 207-838-8 REACH-no: 01-2119485498-19 Index-no: 011-005-00-2
CONTENT:	15-25%
CLP CLASSIFICATION:	Eye Irrit. 2 H319

NAME:	Sodium carbonate peroxide
IDENTIFICATION NOS.:	CAS-no: 15630-89-4 EC-no: 239-707-6 REACH-no: - Index-no: -
CONTENT:	10-15%
CLP CLASSIFICATION:	Ox. Sol 3, Acute Tox. 4, Eye Dam. 1 H272, H302, H318

NAME:	fatty alcohol alkoxylate
IDENTIFICATION NOS.:	CAS-no: 501019-88-1 EC-no: - REACH-no: - Index-no: -
CONTENT:	3-5%
CLP CLASSIFICATION:	Eye Irrit. 2 H319

NAME:	silicic acid, sodium salt
IDENTIFICATION NOS.:	CAS-no: 1344-09-8 EC-no: 215-687-4 REACH-no: 01-2119448725-31 Index-no: -
CONTENT:	1-3%
CLP CLASSIFICATION:	Skin Irrit. 2, Eye Dam. 1, STOT SE 3 H315, H318, H335

NAME:	subtilisin
IDENTIFICATION NOS.:	CAS-no: 9014-01-1 EC-no: 232-752-2 REACH-no: 01-2119480434-38 Index-no: 647-012-00-8
CONTENT:	<1%
CLP CLASSIFICATION:	Acute Tox. 4, STOT SE 3, Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1, Aquatic Acute 1, Aquatic Chronic 2 H302, H315, H318, H334, H335, H400, H411 (M-acute = 1)

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

Other information

ATEmix(inhale, dust/mist) > 20
ATEmix(oral) > 2000
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 3,9472 - 5,9208
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,0856 - 0,1284
N acute (CAT 1) Sum = Sum(Ci/M(acute)i*25) = 0,004272 - 0,006408
Detergent:

5 - 15%: OXYGEN-BASED BLEACHING AGENTS
< 5%: NON-IONIC SURFACTANTS, ENZYMES, PERFUMES

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. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the person into fresh air and stay with him.

Skin contact

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable

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

Sensitisation: This product contains substances, which may produce an allergic reaction through inhalation. The allergic reaction is typically taking place within an hour subsequent to exposure. The reaction results in an inflammatory reaction to the lungs.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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. Waterjets 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, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Some metal oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

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

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on “Disposal considerations” in regard of 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, storage of tobacco, consumption and storage of 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 container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

Room temperature 18 to 23°C

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

DNEL / PNEC

DNEL (Sodium carbonate peroxide): 12,8 mg/cm2
Exposure: Dermal
Duration of Exposure: Short term – Local effects - Workers
DNEL (Sodium carbonate peroxide): 5 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers
DNEL (Sodium carbonate peroxide): 6,4 mg/cm2
Exposure: Dermal
Duration of Exposure: Short term – Local effects - General population
DNEL (Sodium carbonate): 10 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers
DNEL (Sodium carbonate): 10 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population
DNEL (silicic acid, sodium salt): 1,59 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers
Remarks: SDS -0227 13-07-2015
DNEL (silicic acid, sodium salt): 5,61 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers
Remarks: SDS -0227 13-07-2015
DNEL (silicic acid, sodium salt): 0,80 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population
Remarks: SDS -0227 13-07-2015
DNEL (silicic acid, sodium salt): 1,38 mg/M3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population
Remarks: SDS -0227 13-07-2015
DNEL (silicic acid, sodium salt): 0,80 mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (subtilisin): 60 ng/m3 aktiv enzym protein
Exposure: Inhalation
Remarks: RCR <1
DNEL (subtilisin): 0,2%

Exposure: Dermal
Remarks: RCR 0,075
PNEC (silicic acid, sodium salt): 7,5 mg/l
Exposure: Freshwater
Remarks: SDS -0227 13-07-2015
PNEC (silicic acid, sodium salt): 7,0 mg/l
Exposure: Water
Remarks: SDS -0227 13-07-2015 (Sø vand)
PNEC (silicic acid, sodium salt): 7,5 mg/l
Exposure: Intermittent release
Remarks: SDS -0227 13-07-2015
PNEC (silicic acid, sodium salt): 348 mg/l
Exposure: Activated Sludge Plant
Remarks: SDS -0227 13-07-2015 (Slam)
PNEC (subtilisin): 0,06
Exposure: Freshwater
Remarks: EUSES
PNEC (subtilisin): 0,006
Exposure: Marine water
Remarks: EUSES
PNEC (subtilisin): 65000
Exposure: Sewage Treatment Plant
Remarks: EUSES
PNEC (subtilisin): 0,568
Exposure: Soil
Remarks: EUSES

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

No specific requirements.

Skin protection

Dedicated work clothing should be worn.

Hand protection

Wear protective gloves. The specific work situation is unknown. Contact the suppliers of the gloves for further advice regarding the appropriate 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

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Solid
Colour	White
Odour	Perfume
pH	10,5±0,5
Viscosity (40°C)	No data available.
Density (g/cm³)	No data available.

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.

Data on fire and explosion hazards

Flashpoint (°C)	No data available.
Ignition (°C)	No data available.
Self-ignition (°C)	No data available.
Explosion limits (Vol %)	No data available.

Solubility

Solubility in water	Soluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.

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 “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 oxidizing agents, and strong reducing 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
silicic acid, sodium salt	Rat	LD50	Oral	3400 mg/kg
silicic acid, sodium salt	Rat	LC50	Inhalation	> 2,06 g/m3
Sodium carbonate peroxide	Rat	LD50	Oral	>892 mg/kg
Sodium carbonate	Rabbit	LD50	Dermal	> 2000 mg/kg
Sodium carbonate	Rat	LD50	Oral	2800 mg/kg

Skin corrosion/irritation
No data available.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
Sensitisation: This product contains substances, which may produce an allergic reaction through inhalation. The allergic reaction is typically taking place within an hour subsequent to exposure. The reaction results in an inflammatory reaction to the lungs.

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
No data available.

Long term effects
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Duration	Result
silicic acid, sodium salt	Fish	LC50	96 h	1108 mg/l
silicic acid, sodium salt	Daphnia	EC50	48 h	1700 mg/l
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
silicic acid, sodium salt	Yes	No data available	No data available
fatty alcohol alkoxylate	Yes	Modified OECD Screening Test	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
silicic acid, sodium salt	No	No data available	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 substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product is covered by the regulations on hazardous waste.

Waste
EWC code

-

Specific labelling
-

Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4
Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

14.1. UN number	-
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	-
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

IMDG

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

IATA/ICAO

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL 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.

Sources

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
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 (CLP).
EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H272 - May intensify fire; oxidiser.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H400 - Very toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

-

Other symbols mentioned in section 2

-

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)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.
A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) 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)

-