

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

# AQUANOMIC SOLID DETERGENT

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

### 1.1 Product identifier

Product name : AQUANOMIC SOLID DETERGENT

Product code : 116097E

Type of substance : Mixture

For professional users only.

Product dilution information : 0.05 % - 0.11 %

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

Identified uses : Laundry detergent. Automatic process

Recommended restrictions

on use

: Reserved for industrial and professional use.

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

Company : Ecolab Ltd.

PO Box 11; Winnington Avenue

Northwich, Cheshire, United Kingdom CW8 4DX

+353 (0)1 276 3500 ccs@ecolab.com

### 1.4 Emergency telephone number

Emergency telephone

number

: +353 (0)1 276 3500

telephone number

Poison Information Centre : For medical professionals only: +353 (0)1 837 9964 (8am-10pm)

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# **SECTION 2. HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

**Product AS SOLD** 

Skin corrosion, Category 1A H314

## **Product AT USE DILUTION**

Not a hazardous substance or mixture.

**Classification (67/548/EEC, 1999/45/EC)** 

**Product AS SOLD** 

C; CORROSIVE R35

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### **Product AT USE DILUTION**

The product does not need to be labelled in accordance with EC directives or respective national laws.

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

**Product AS SOLD** 

Hazard pictograms

Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:** 

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

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.

Hazardous components which must be listed on the label: sodium hydroxide

# **Product AT USE DILUTION**

Not a hazardous substance or mixture.

# 2.3 Other hazards

**Product AS SOLD** 

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

# Product AS SOLD Hazardous components

Chemical Name	CAS-No.	Classification	Classification	Concentration:
	EC-No.	(67/548/EEC)	(REGULATION (EC) No	[%]
	REACH No.		1272/2008)	

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sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27	C; R35	Skin corrosionCategory 1A; H314	>= 30 - < 50
alcohols, c12-16, ethoxylated	68551-12-2	Xn-Xi; R22- R41-R38	Acute toxicityCategory 4; H302 Skin irritationCategory 2; H315 Serious eye damage/eye irritationCategory 1; H318	>= 10 - < 20
Sodium Carbonate	497-19-8 207-838-8 01-2119485498-19	Xi; R36	Eye irritationCategory 2; H319	>= 5 - < 10

### **Product AT USE DILUTION**

Remarks : No hazardous ingredients

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4. FIRST AID MEASURES**

### 4.1 Description of first aid measures

**Product AS SOLD** 

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.

Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention

immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical

attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention

if symptoms occur.

**Product AT USE DILUTION** 

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

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

See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

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### **SECTION 5. FIREFIGHTING MEASURES**

### **Product AS SOLD**

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

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

Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

### 5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Further information : Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations. In the event of

fire and/or explosion do not breathe fumes.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

# 6.1 Personal precautions, protective equipment and emergency procedures

## **Product AS SOLD**

Advice for non-emergency

personnel

: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the

exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to

protective measures listed in sections 7 and 8.

Advice for emergency

responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

# **Product AT USE DILUTION**

Advice for non-emergency

personnel

: Refer to protective measures listed in sections 7 and 8.

Advice for emergency

responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

### 6.2 Environmental precautions

### **Product AS SOLD**

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Environmental precautions : Do not allow contact with soil, surface or ground water.

**Product AT USE DILUTION** 

Environmental precautions : No special environmental precautions required.

### 6.3 Methods and materials for containment and cleaning up

### **Product AS SOLD**

Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Do not flush into surface water or sanitary sewer

system.

#### **Product AT USE DILUTION**

Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Do not flush into surface water or sanitary sewer

system.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

### **SECTION 7. HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

**Product AS SOLD** 

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not

breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

**Product AT USE DILUTION** 

Advice on safe handling: Wash hands after handling. For personal protection see section 8.

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

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

**Product AS SOLD** 

Requirements for storage areas and containers

: Keep out of reach of children. Keep container tightly closed. Store

in suitable labeled containers.

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Storage temperature : -30 °C to 50 °C

**Product AT USE DILUTION** 

Requirements for storage areas and containers

: Keep out of reach of children. Keep container tightly closed. Store

in suitable labeled containers.

## 7.3 Specific end use(s)

**Product AS SOLD** 

Specific use(s) : Laundry detergent. Automatic process

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

# Product AS SOLD Occupational Exposure Limits

CAS-No.	Components	Value type (Form of exposure)	Control parameters	Update	Basis
1310-73-2	sodium hydroxide	OELV - 15 min (STEL)	2 mg/m3	2002-03-12	IR_OEL

#### 8.2 Exposure controls

### **Product AS SOLD**

# Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system Maintain air concentrations

below occupational exposure standards.

### Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety glasses

Face-shield

Hand protection (EN 374) : Wear the following personal protective equipment:

Nitrile rubber butyl-rubber Impervious gloves

Gloves should be discarded and replaced if there is any indication

of degradation or chemical breakthrough.

Skin and body protection (EN

14605)

Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

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requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

# Product AT USE DILUTION Appropriate engineering controls

Engineering measures : Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

Eye/face protection (EN 166) : No special protective equipment required.

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection (EN

14605)

: No special protective equipment required.

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

liquid

colourless

10.8 - 11.5

not significant

or procedures of work organization.

### **Environmental exposure controls**

General advice : Consider the provision of containment around storage vessels.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Information on basic physical and chemical properties

Product AS SOLD Product AT USE DILUTION

Appearance : Cast Solid

Colour : opaque, yellow

Odour : Perfumes, fragrances

pH : 11.8 - 13.0, 1 %

Flash point : Not applicable.

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and

boiling range

: > 100 °C

Evaporation rate : no data available
Flammability (solid, gas) : no data available
Upper explosion limit : no data available
Lower explosion limit : no data available

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Vapour pressure : no data available Relative vapour density : no data available

Relative density : 1.45 - 1.55 Water solubility : insoluble

Solubility in other solvents : no data available : no data available Partition coefficient: n-

octanol/water

Auto-ignition temperature : no data available Thermal decomposition : no data available Viscosity, kinematic : no data available Explosive properties : no data available Oxidizing properties : no data available

### 9.2 Other information

no data available

### SECTION 10. STABILITY AND REACTIVITY

# **Product AS SOLD** 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

Stable under normal conditions.

# 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

None known.

# 10.5 Incompatible materials

Acids Metals

### 10.6 Hazardous decomposition products

Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

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**Product AS SOLD** 

Information on likely routes of : Eye contact, Skin contact

exposure

**Toxicity** 

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin

sensitization

: There is no data available for this product.

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : alcohols, c12-16, ethoxylated

LD50 rat: 1,100 mg/kg

Sodium Carbonate LD50 rat: 2,800 mg/kg

Acute dermal toxicity : alcohols, c12-16, ethoxylated

LD50 rabbit: > 2,000 mg/kg

**Potential Health Effects** 

**Product AS SOLD** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

: Causes digestive tract burns. Ingestion

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Product AT USE DILUTION** 

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Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

### **Experience with human exposure**

**Product AS SOLD** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Product AT USE DILUTION** 

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

### **SECTION 12. ECOLOGICAL INFORMATION**

### Product AS SOLD

# 12.1 Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

**Product** 

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : alcohols, c12-16, ethoxylated

96 h LC50 Fish: 1.5 mg/l

Components

Toxicity to daphnia and other : sodium hydroxide

aquatic invertebrates

sodium hydroxide 48 h EC50: 40 mg/l

Sodium Carbonate

48 h EC50 Daphnia: 200 mg/l

### 12.2 Persistence and degradability

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no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

### **Product**

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

### 12.6 Other adverse effects

no data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

# 13.1 Waste treatment methods

**Product AS SOLD** 

Product : Where possible recycling is preferred to disposal or incineration. If

recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal

facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do

not re-use empty containers.

European Waste Catalogue : 200115\* - alkalines

**Product AT USE DILUTION** 

Product

: Where possible recycling is preferred to disposal or incineration. If

recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal

facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do

not re-use empty containers.

# **SECTION 14. TRANSPORT INFORMATION**

### **Product AS SOLD**

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The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number : 1823

14.2 UN proper shipping : SODIUM HYDROXIDE, SOLID

name

14.3 Transport hazard : 8

class(es)

14.4 Packing group : II14.5 Environmental hazards : No14.6 Special precautions for : None

user

Air transport (IATA)

14.1 UN number : 1823

14.2 UN proper shipping : Sodium hydroxide, solid

name

14.3 Transport hazard : 8

class(es)

14.4 Packing group : II14.5 Environmental hazards : No14.6 Special precautions for : None

user

Sea Transport (IMDG/IMO)

14.1 UN number : 1823

14.2 UN proper shipping : SODIUM HYDROXIDE, SOLID

name

14.3 Transport hazard : 8

class(es)

14.4 Packing group14.5 Environmental hazards14.6 Special precautions forNone

user

14.7 Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC

Code

**Product AT USE DILUTION** 

Not intended for transport.

### **SECTION 15. REGULATORY INFORMATION**

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

: Not applicable.

according to Detergents : 5 % or over but less than 15 %: Non-ionic surfactants

Regulation EC 648/2004 less than 5 %: Polycarboxylates

Other constituents: Optical brighteners

### **National Regulations**

Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : Safety, Health and Welfare at Work Act, 2005

European Communities (Classification, Packaging, Labelling and

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Notification of Dangerous Preparations) Regulations 1995. (S.I. 272 of 1995) as amended

### 15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

### SECTION 16. OTHER INFORMATION

### **Full text of R-Phrases**

R22	Harmful if swallowed.
R35	Causes severe burns.
R36	Irritating to eyes.
R38	Irritating to skin.

R41 Risk of serious damage to eyes.

# **Full text of H-Statements**

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.

### Full text of other abbreviations

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## **ANNEX: EXPOSURE SCENARIOS**

### **DPD+ Substances:**

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.
Ingestion	sodium hydroxide	1310-73-2	215-185-5
Inhalation	sodium hydroxide	1310-73-2	215-185-5
Dermal	sodium hydroxide	1310-73-2	215-185-5
Eyes	sodium hydroxide	1310-73-2	215-185-5

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aquatic environment	No lead substance		

# Physical properties DPD+ Substances:

Substance	Vapour pressure	Water solubility	POW	Molar Mass
sodium hydroxide	55 hPa	100 g/ml		40 g/mol

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

# www.ecetoc.org/tra

Short title of Exposure

Scenario

: Laundry detergent. Automatic process

**Use descriptors** 

Main User Groups : Industrial uses: Uses of substances as such or in preparations at

industrial sites

Sectors of end-use : SU3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Process categories : **PROC2:** Use in closed, continuous process with occasional

controlled exposure

**PROC8b:** Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

Product categories : **PC35:** Washing and cleaning products (including solvent based

products)

Environmental Release

Categories

: ERC4: Industrial use of processing aids in processes and

products, not becoming part of articles

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