

**AQUANOMIC SOLID DETERGENT****Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name : AQUANOMIC SOLID DETERGENT  
UFI : 7FFG-6JEN-ND0N-QHF5  
Product code : 117088E  
Use of the Substance/Mixture : Laundry detergent  
Substance type: : 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 Deutschland GmbH  
Ecolab-Allee 1  
40789 Monheim am Rhein, Germany +49 (0)2173 599 0  
OfficeService.DEDUS@ecolab.com

**1.4 Emergency telephone number**

Emergency telephone number : +32-(0)3-575-5555 Trans-european, German speaking, 24/7  
or +49 32 212249407 German speaking, 24/7

Poison Information Centre telephone number : +49 (0)551 38318854

Date of Compilation/Revision : 04.05.2023  
Version : 1.5

**Section: 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)****Product AS SOLD**

Skin corrosion, Sub-category 1A

H314

**AQUANOMIC SOLID DETERGENT**

Serious eye damage, Category 1

H318

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**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:**

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

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. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27	Skin corrosion Category 1A; H314 Corrosive to metals Category 1; H290  Skin corrosion Category 1A H314 >= 5 % Skin corrosion Category 1B H314 2 - < 5 %	>= 30 - < 50

**AQUANOMIC SOLID DETERGENT**

		Skin irritation Category 2 H315 0.5 - < 2 % Eye irritation Category 2 H319 0.5 - < 2 %	
Fattyalcohol ethoxylates =/ $\leq$ C15 and =/ $\leq$ 5EO	68213-23-0 01-2119489387-20	Acute toxicity Category 4; H302 Serious eye damage Category 1; H318 Chronic aquatic toxicity Category 3; H412	$\geq$ 10 - < 20
Sodium Carbonate	497-19-8 207-838-8 01-2119485498-19	Eye irritation Category 2; H319	$\geq$ 5 - < 10

**Product AT USE DILUTION**

Remarks : No hazardous ingredients

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. 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. If conscious, give 2 glasses of water. 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.

**Section: 5. FIREFIGHTING MEASURES**

**Product AS SOLD**

**5.1 Extinguishing media**

**AQUANOMIC SOLID DETERGENT**

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 : Depending on combustion properties, decomposition products may include following materials:  
Carbon oxides  
metal oxides

**5.3 Advice for firefighters**

Special protective equipment for firefighters : 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**

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**

## **AQUANOMIC SOLID DETERGENT**

### **Product AS SOLD**

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

### **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.

### **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. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe dust. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

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. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). 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.

Storage temperature : -30 °C to 40 °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 uses**

**AQUANOMIC SOLID DETERGENT**

**Product AS SOLD**

Specific use(s) : Laundry detergent. Automatic process

**Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Product AS SOLD**

Contains no substances with occupational exposure limit values.

**DNEL**

sodium hydroxide	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m3  End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m3
Sodium Carbonate	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 10 mg/m3  End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 10 mg/m3

**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) : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hand protection (EN 374) : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Skin and body protection (EN 14605) : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing including appropriate safety shoes

**AQUANOMIC SOLID DETERGENT**

Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Respiratory protection (EN 143, 14387) : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

**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, (EU) 2016/425), 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.

**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**

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
Physical state	: solid	liquid
Colour	: opaque, yellow	colourless
Odour	: not significant	not significant
pH	: 11.8 - 13.0, 1 %	10.8 - 11.5
Particle characteristics		
Assessment	: no data available	not applicable
Particle size	: no data available	not applicable
Particle Size Distribution	: no data available	not applicable
Dustiness	: no data available	not applicable
Specific surface area	: no data available	not applicable
Surface charge/Zeta	: no data available	not applicable

**AQUANOMIC SOLID DETERGENT**

potential		
Shape	: no data available	not applicable
Crystallinity	: no data available	not applicable
Surface treatment /Coatings	: no data available	not applicable
Flash point	: Not applicable.	
Odour Threshold	: Not applicable and/or not determined for the mixture	
Melting point/freezing point	: Not applicable and/or not determined for the mixture	
Boiling point, initial boiling point and boiling range	: > 100 °C	
Evaporation rate	: Not applicable and/or not determined for the mixture	
Flammability	: Not applicable and/or not determined for the mixture	
Upper explosion limit	: Not applicable and/or not determined for the mixture	
Lower explosion limit	: Not applicable and/or not determined for the mixture	
Vapour pressure	: Not applicable and/or not determined for the mixture	
Relative vapour density	: Not applicable and/or not determined for the mixture	
Density and / or relative density	: 1.45 - 1.55	
Water solubility	: soluble	
Solubility in other solvents	: Not applicable and/or not determined for the mixture	
Partition coefficient: n-octanol/water (log value)	: Not applicable and/or not determined for the mixture	
Auto-ignition temperature	: Not applicable and/or not determined for the mixture	
Thermal decomposition	: Not applicable and/or not determined for the mixture	
Viscosity, kinematic	: Not applicable and/or not determined for the mixture	
Explosive properties	: Not applicable and/or not determined for the mixture	
Oxidizing properties	: Not applicable and/or not determined for the mixture	

**9.2 Other information**

Not applicable and/or not determined for the mixture

**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.



**AQUANOMIC SOLID DETERGENT**

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

Acids  
Metals

**10.6 Hazardous decomposition products**

Depending on combustion properties, decomposition products may include following materials:  
Carbon oxides  
metal oxides

**Section: 11. TOXICOLOGICAL INFORMATION**

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

**Product AS SOLD**

Information on likely routes of exposure : Eye contact, Skin contact

**Product**

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 : no data available  
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 : Sodium Carbonate LD50 rat: 2,800 mg/kg

**Potential Health Effects**

**AQUANOMIC SOLID DETERGENT**

**Product AS SOLD**

- Eyes : Causes serious eye damage.
- Skin : Causes severe skin burns.
- Ingestion : Causes digestive tract burns.
- Inhalation : May cause nose, throat, and lung irritation.
- Chronic Exposure : Health injuries are not known or expected under normal use.

**Product AT USE DILUTION**

- 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.

**11.2 Information on other hazards**

- Further information : no data available

**Section: 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Product AS SOLD**

- Environmental Effects : This product has no known ecotoxicological effects.

**Product AT USE DILUTION**

- Environmental Effects : This product has no known ecotoxicological effects.

**Product AS SOLD  
Product**

**AQUANOMIC SOLID DETERGENT**

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

**Components**

Toxicity to fish : Sodium Carbonate  
96 h LC50 *Lepomis macrochirus* (Bluegill sunfish): 300 mg/l

**Components**

Toxicity to daphnia and other aquatic invertebrates : sodium hydroxide  
48 h EC50 *Daphnia magna* (Water flea): 40 mg/l

Sodium Carbonate  
48 h EC50 *Ceriodaphnia* (water flea): 213.5 mg/l

**12.2 Persistence and degradability**

**Product**

Biodegradability : The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

**Components**

Biodegradability : sodium hydroxide  
Result: Not applicable - inorganic

Fattyalcohol ethoxylates  $\leq$  C15 and  $\leq$  5EO  
Result: Readily biodegradable.

Sodium Carbonate  
Result: Not applicable - inorganic

**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 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

**AQUANOMIC SOLID DETERGENT**

**12.7 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 contents/container in accordance 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. Dispose of in accordance with local, state, and federal regulations.
- Guidance for Waste Code selection : Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

**Product AT USE DILUTION**

- Product : Diluted product can be flushed to sanitary sewer if regulations permit.
- Contaminated packaging : Dispose of in accordance with local, state, and federal regulations.

**Section: 14. TRANSPORT INFORMATION**

**Product AS SOLD**

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 or ID number : 1823
- 14.2 UN proper shipping name : SODIUM HYDROXIDE, SOLID
- 14.3 Transport hazard class(es) : 8
- 14.4 Packing group : II
- 14.5 Environmental hazards : No
- 14.6 Special precautions for user : None

**Air transport (IATA)**

**AQUANOMIC SOLID DETERGENT**

14.1 UN number or ID number : 1823  
14.2 UN proper shipping name : Sodium hydroxide, solid, mixture  
14.3 Transport hazard class(es) : 8  
14.4 Packing group : II  
14.5 Environmental hazards : No  
14.6 Special precautions for user : None

**Sea transport (IMDG/IMO)**

14.1 UN number or ID number : 1823  
14.2 UN proper shipping name : SODIUM HYDROXIDE, SOLID  
14.3 Transport hazard class(es) : 8  
14.4 Packing group : II  
14.5 Environmental hazards : No  
14.6 Special precautions for user : None  
14.7 Maritime transport in bulk according to IMO instruments : Not applicable.

**Section: 15. REGULATORY INFORMATION**

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

according to Detergents Regulation EC 648/2004 : 5 % or over but less than 15 %: Non-ionic surfactants, Polycarboxylates  
Other constituents: Optical brighteners

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable.

Candidate List of Substances of Very High Concern for Authorisation : Not applicable.

**National Regulations**

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

Hazard class for water : WGK 2  
Classification according to AwSV, Annex 1

German storage class : 8B

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out on the product.

**AQUANOMIC SOLID DETERGENT****Section: 16. OTHER INFORMATION****Procedure used to derive the classification according to REGULATION (EC) No 1272/2008**

Classification	Justification
Skin corrosion 1A, H314	Calculation method
Serious eye damage 1, H318	Calculation method

**Full text of H-Statements**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.

**AQUANOMIC SOLID DETERGENT**

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**

**Exposure Scenario: Laundry detergent. Automatic process**

Life Cycle Stage : Use at industrial sites  
Product category : **PC35** Washing and cleaning products (including solvent based products)

**Contributing scenario controlling environmental exposure for:**

Environmental release category : **ERC4** Industrial use of processing aids in processes and products, not becoming part of articles  
Daily amount per site : 50 kg  
Type of Sewage Treatment Plant : Municipal sewage treatment plant

**Contributing scenario controlling worker exposure for:**

Process category : **PROC8b** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities  
Exposure duration : 60 min  
Operational conditions and risk management measures : Indoor  
Local Exhaust Ventilation is not required  
General ventilation Ventilation rate per hour 1  
Skin Protection : see section 8  
Respiratory Protection : see section 8

**Contributing scenario controlling worker exposure for:**

Process category : **PROC2** Use in closed, continuous process with occasional controlled exposure  
Exposure duration : 480 min  
Operational conditions and risk management measures : Indoor

**AQUANOMIC SOLID DETERGENT**

Local Exhaust Ventilation is not required

General ventilation	Ventilation rate per hour	1
---------------------	---------------------------	---

Skin Protection : see section 8

Respiratory Protection : see section 8