

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

# AQUANOMIC SOLID DESTAINER

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

#### 1.1 Product identifier

Product name : AQUANOMIC SOLID DESTAINER

Product code : 116098E

Use of the : Laundry product

Substance/Mixture

, ,

Substance type: : Mixture

For professional users only.

Product dilution information : 0.01 % - 0.19 %

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

Identified uses : Laundry aid (non-gasing). 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

+ 44 (0)1606 74488 ccs@ecolab.com

# 1.4 Emergency telephone number

Emergency telephone

number

: Food & Beverage, Institutional, Agriculture, Textile Hygiene:

Northwich: +44 (0)1606 74488

Healthcare Leeds: +44 (0)113 232 2480 Healthcare Swansea: +44 (0)1235 239670

Poison Information Centre

telephone number

: Not Available

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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** 

Acute toxicity, Category 4 H302 Eye irritation, Category 2 H319

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Acute aquatic toxicity, Category 1 H400 Chronic aquatic toxicity, Category 1 H410 The classification of this product is based on toxicological assessment.

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

Not a hazardous substance or mixture.

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

#### **Product AS SOLD**

Xn; HARMFUL R22 N; DANGEROUS FOR THE ENVIRONMENT R31 R36 R50/53

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

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

#### 2.2 Label elements

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

## **Product AS SOLD**

Hazard pictograms





Signal Word : Warning

Hazard Statements : H302 Harmful if swallowed.

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting

effects.

Supplemental Hazard : EUH031 Contact with acids liberates toxic gas.

Statements

Precautionary Statements : Prevention:

P273 Avoid release to the environment.
P280e Wear eye protection/face protection.

Hazardous components which must be listed on the label: Sodium dichloro-s-triazinetrione dihydrate

## **Product AT USE DILUTION**

Not a hazardous substance or mixture.

#### 2.3 Other hazards

# **Product AS SOLD**

Mixing this product with acid or ammonia releases chlorine gas.

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# Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

# Product AS SOLD Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	ClassificationREGULATION (EC) No 1272/2008	Concentration: [%]
Sodium dichloro-s- triazinetrione dihydrate	51580-86-0 220-767-7 01-2119489371-33	Acute toxicity Category 4; H302 Eye irritation Category 2; H319 Specific target organ toxicity - single exposure Category 3; H335 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410	>= 50 - <= 100

# Product AT USE DILUTION Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	ClassificationREGULATION (EC) No 1272/2008	Concentration: [%]
Sodium dichloro-s- triazinetrione dihydrate	51580-86-0 220-767-7 01-2119489371-33	Acute toxicityCategory 4; H302 Eye irritationCategory 2; H319 Specific target organ toxicity - single exposureCategory 3; H335 Acute aquatic toxicityCategory 1; H400 Chronic aquatic toxicityCategory 1; H410	>= 0.1 - < 0.25

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.

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.

**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.

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#### 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

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

: Exposure to decomposition products may be a hazard to health.

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 : Collect contaminated fire extinguishing water separately. This

> must not be discharged into drains. 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 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

Advice for emergency

responders

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

: 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

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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

**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). 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. Avoid contact with skin and eyes. Use only with

> adequate ventilation. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.

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

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

Wash face, hands and any exposed skin thoroughly after

handling.

**Product AT USE DILUTION** 

Advice on safe handling

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

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

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 : 0 °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.

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#### 7.3 Specific end uses

**Product AS SOLD** 

Specific use(s) : Laundry aid (non-gasing). Automatic process

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### **Product AS SOLD**

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
Contains no substances with occupational exposure limit values.				
chlorine	7782-50-5	STEL	0.5 ppm	UKCOSSTD
			1.5 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.

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) : No special protective equipment required.

Skin and body protection

(EN 14605)

: No special protective equipment required.

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.

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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

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 liquid
Colour : opaque, white colourless
Odour : Chlorine
pH : 6.25 - 7.25, 1 % 6.0 - 8.5

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

Initial boiling point and

boiling range

: > 100 °C

Evaporation rate : Not applicable and/or not determined for the mixture Flammability (solid, gas) : 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 Relative density : Not applicable and/or not determined for the mixture

Water solubility : insoluble

Solubility in other solvents : Not applicable and/or not determined for the mixture Partition coefficient: n- : Not applicable and/or not determined for the mixture

octanol/water

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

: Not applicable and/or not determined for the mixture

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Oxidizing properties

#### 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

Mixing this product with acid or ammonia releases chlorine gas.

## 10.4 Conditions to avoid

None known.

# 10.5 Incompatible materials

Acids

**Bases** 

Metals

Organic materials

## 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

# **Product AS SOLD**

Information on likely routes of : Eye contact, Skin contact

exposure

## **Product**

Acute oral toxicity : Acute toxicity estimate : 1,832 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.

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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 : The substance or mixture is not classified as specific target organ

toxicant, single exposure.

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 dichloro-s-triazinetrione dihydrate

LD50 rat: 1,823 mg/kg

Components

Acute dermal toxicity : Sodium dichloro-s-triazinetrione dihydrate

LD50 rat: > 5,000 mg/kg

**Potential Health Effects** 

**Product AS SOLD** 

Eyes : Causes serious eye irritation.

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

Ingestion : Harmful if swallowed.

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

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, Irritation

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Skin contact : No symptoms known or expected.

Ingestion : No information available.

Inhalation : No symptoms known or expected.

**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** : Very toxic to aquatic life. Very toxic to aquatic life with long lasting

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

aquatic invertebrates

Toxicity to daphnia and other : Sodium dichloro-s-triazinetrione dihydrate

48 h EC50 Daphnia: 0.196 mg/l

# 12.2 Persistence and degradability

# **Product**

: The surfactants contained in the product are biodegradable Biodegradability

according to the requirements of the detergent regulation

648/2004/EC

Components

Biodegradability : Sodium dichloro-s-triazinetrione dihydrate

Result: Readily biodegradable.

# 12.3 Bioaccumulative potential

no data available

# 12.4 Mobility in soil

no data available

# 12.5 Results of PBT and vPvB assessment

# **Product**

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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 : The product should not be allowed to enter drains, water courses

or the soil. 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. Dispose of in accordance with local,

state, and federal regulations.

Guidance for Waste Code

selection

: Organic 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.

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 : 3077

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

name N.O.S.

(troclosene sodium, dihydrate)

14.3 Transport hazard : 9

class(es)

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: 111 14.4 Packing group 14.5 Environmental hazards : Yes

14.6 Special precautions for

user

: None

Air transport (IATA)

14.1 UN number : 3077

14.2 UN proper shipping : Environmentally hazardous substance, solid, n.o.s.

name

14.3 Transport hazard

class(es)

14.4 Packing group : 111 14.5 Environmental hazards : No 14.6 Special precautions for : None

user

Sea transport (IMDG/IMO)

14.1 UN number : 3077

14.2 UN proper shipping : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. name

(troclosene sodium, dihydrate)

14.3 Transport hazard : 9

class(es)

14.4 Packing group : 111 14.5 Environmental hazards : Yes

14.6 Special precautions for

user

: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

: 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 : 30 % and more: Chlorine-based bleaching agents

## **National Regulations**

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

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)

Regulations.

The Control of Substances Hazardous to Health Regulations.

Health and Safety at Work Act.

# 15.2 Chemical Safety Assessment

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

## **Section: 16. OTHER INFORMATION**

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#### **Full text of H-Statements**

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic 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; AICS - Australian Inventory of Chemical Substances; 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; NZloC - 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; TCSI - Taiwan Chemical Substance Inventory; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## **Further information**

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.

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# **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 dichloro-s-triazinetrione dihydrate	51580-86-0	220-767-7
Inhalation	Sodium dichloro-s-triazinetrione dihydrate	51580-86-0	220-767-7
Dermal	No lead substance		
Eyes	Sodium dichloro-s-triazinetrione dihydrate	51580-86-0	220-767-7
aquatic environment	Sodium dichloro-s-triazinetrione dihydrate	51580-86-0	220-767-7

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 aid (non-gasing). 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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