

# Safety Data Sheet

## Washing Machine and Dishwasher Descaler



### 1. Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier Washing Machine and Dishwasher Descaler  
1.2. Relevant identified uses of the substance or mixture and uses advised against  
1.3. Details of the supplier of the safety data sheet

Manufactured for:  
Connect Distribution Services Ltd  
Connect House  
Small Heath Business Park  
Talbot Way  
Birmingham  
B10 0HJ  
enquiries@connect-distribution.co.uk

- 1.4. Emergency telephone number: (01217) 662 209

### 2. Hazards identification.

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Serious eye damage/eye	Category 2	--- irritation	H319

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

#### Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9/10 for physicochemical information.

Potential environmental Effects : See section 12 for environmental information.

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### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008



Hazard symbols

:

Signal word :

Warning

Hazard statements

:

H319

Causes serious eye irritation.

Precautionary statements

Prevention :

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response :

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

Disposal :

P501

Dispose of contents/ container in accordance with the local/regional/international regulations.

#### Additional Labelling:

EUH210 Safety data sheet available on request.

#### Hazardous components which must be listed on the label:

Citric acid, monohydrate

### 2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

**3. Composition/information on ingredients.**

3.1. Substances.:

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
<b>Citric acid, monohydrate</b> CAS-No. : 5949-29-1 EC-No. : 201-069-1 EU REACH- : 01-2119457026-42-xxxx Reg. No.	<= 100	Eye Irrit.2	H319

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

**4. First aid measures**

**4.1. Description of first aid measures**

General advice : Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.

If inhaled : Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with plenty of water. If symptoms persist, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Consult a physician if necessary.

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

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

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

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

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Treatment : Treat symptomatically.

### 5. Firefighting measures.

#### 5.1. Extinguishing media

Suitable extinguishing media : Water, Foam  
Unsuitable extinguishing water jet media : High volume

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

Specific hazards during release : Dust may form explosive mixture in air. Heating or fire can release toxic gas.

Hazardous combustion : Carbon dioxide (CO<sub>2</sub>), Carbon monoxide products

#### 5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear suitable protective clothing.  
Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool closed containers exposed to fire with water spray.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment. Keep away from unprotected persons. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Keep away from heat and sources of ignition.

#### 6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

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

Methods and materials for a containment and cleaning : Take up spilled substance by mechanical means or with vacuum cleaner equipped with a high efficiency filter.  
Keep in up suitable, closed containers for disposal. After cleaning, flush away traces with water. Retain and dispose of contaminated wash water. No sparking tools should be used. Use only explosion-proof equipment. Avoid generation of dust during clean-up.

#### 6.4. Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on personal protective equipment.  
See Section 13 for waste treatment information.

### 7. Handling and storage.

#### 7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Avoid dust formation.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area.  
Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

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

Requirements for storage : Store in original container. Keep away from sources of ignition - areas and containers No smoking.

Advice on protection fire and explosion : Normal measures for preventive fire protection. Keep away against from heat and sources of ignition. Avoid dust formation. Dust may form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. Ensure all equipment is electrically grounded before beginning transfer operations. No sparking tools should be used.

Fire-fighting class : medium-combustible (Flp > 100°C)

Further information on wellstorage conditions : Keep tightly closed in a dry and cool place. Keep in a ventilated place. Keep away from direct sunlight. Avoid moisture.

Advice on common storage : Incompatible with oxidizing agents. Incompatible with strong acids and bases. Reducing agents

German storage class : 11 Combustible Solids

#### 7.3. Specific end use(s)

Specific use(s) : Identified use: See table in front of appendix for a complete overview of identified uses.

### 8. Exposure controls/personal protection

8.1. Information not available

8.2. Exposure controls.

#### Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Provide for appropriate exhaust ventilation and dust collection at machinery.

Take measures to prevent the build up of electrostatic charge.

Use only explosion-proof equipment.

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Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

### Personal protective equipment

#### *Respiratory protection*

Advice: If ventilation is insufficient, suitable respiratory protection must be provided  
Required, if exposure limit is exceeded (e.g. OEL).  
In the case of dust or aerosol formation use respirator with an approved filter.  
Respiratory protection complying with EN 143.

#### *Hand protection*

Advice: Protective gloves complying with EN 374.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.  
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Protective gloves should be replaced at first signs of wear.

Material : Nitrile rubber

Break through time: > 480 min  
Class 6

Eye Protection: Tightly fitting safety goggles  
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.  
Wear appropriate chemical resistant clothing and boots.

### **controls**

Environmental Exposure: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

## 9. Physical and chemical properties

Form: crystalline  
Colour: white  
Odour: odourless  
Odour Threshold: no data available

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pH:	1.8 (50 g/L; 25°C)
Melting point/range:	135 - 152 °C
Boiling point/boiling range:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Flammability (solid, gas):	Does not ignite
Upper explosion limit:	No Information Available
Lower explosion limit:	No Information Available
Vapour pressure:	No Information Available
Relative vapour density:	1.54 g/cm <sup>3</sup> (20 °C)
Density:	1840 g/l (20 °C) soluble
Water solubility:	No Data Available
Partition coefficient: n-octanol/water:	No Information Available
Auto-ignition temperature:	No Information Available
Thermal decomposition:	No Information Available
Viscosity, kinematic:	No Information Available
Explosive properties:	No Information Available
Oxidizing properties:	Not Oxidising

### 10. Stability and reactivity.

10.1. Reactivity:	There are no particular risks of reaction with other substances in normal conditions of use. Stable under recommended transport or storage conditions.
10.2. Chemical stability:	The product is stable in normal conditions of use and storage.
10.3. Possibility of hazardous reactions:	Dust may form explosive mixture in air. Exothermic reaction with: Oxidizing agents Reducing agents Bases With most metals.
10.4. Conditions to avoid:	No information available
10.5. Incompatible materials:	Incompatible with strong bases and oxidizing agents. Keep away from strong oxidizing agents and strong reducing agents. Incompatible with acids and bases.
10.6. Hazardous decomposition products:	Carbon oxides products.

### 11. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

**SECTION 11: Toxicological information 11.1.**  
**Information on toxicological effects**

<b>Data for the product</b>	
<b>Acute toxicity</b>	
<b>Oral</b>	
Please find this information in the listing of the component/components below in this section.	
<b>Inhalation</b>	
Please find this information in the listing of the component/components below in this section.	
<b>Dermal</b>	
Please find this information in the listing of the component/components below in this section.	
<b>Other routes</b>	
Please find this information in the listing of the component/components below in this section.	
<b>Irritation</b>	
<b>Skin</b>	
Result	: Please find this information in the listing of the component/components below in this section.
<b>Eyes</b>	
Result	: Causes serious eye irritation. Please find this information in the listing of the component/components below in this section.
<b>Sensitisation</b>	
Result	: Please find this information in the listing of the component/components below in this section.
<b>Component:</b>	<b>Citric acid, monohydrate</b> <span style="float: right;"><b>CAS-No. 5949-29-1</b></span>
<b>Acute toxicity</b>	
<b>Oral</b>	
LD50	: 5400 mg/kg (Mouse) (OECD Test Guideline 401)
<b>Inhalation</b>	
no data available	



<b>Dermal</b>	
LD50	: > 2000 mg/kg (Rat) (OECD Test Guideline 402)
<b>Irritation</b>	
<b>Skin</b>	
Result	: No skin irritation (Rabbit) (OECD Test Guideline 404)
<b>Eyes</b>	
Result	: Causes serious eye irritation. (OECD - Guideline 405)
<b>Sensitisation</b>	
Result	: not sensitizing
<b>CMR effects</b>	
<b>CMR Properties</b>	
Carcinogenicity	: It is not considered carcinogenic.
Mutagenicity	: It is not considered mutagenic.
Reproductive toxicity	: It is not considered toxic for reproduction.
<b>Genotoxicity in vitro</b>	
Result	: negative (reverse mutation assay; with and without metabolic activation) (OECD Test Guideline 471)
<b>Genotoxicity in vivo</b>	
Result	: negative (Mammalian Bone Marrow Chromosomal Aberration Test; Rat) (OECD Test Guideline 475)

### 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should large quantities of the product reach waterways or sewers or contaminate soil or vegetation.

#### SECTION 12: Ecological information

##### 12.1. Toxicity

###### Data for the product

###### Acute toxicity

###### Short-term (acute) aquatic hazard

Result : The product is not classified as dangerous for the environment.

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EN

###### Component:

Citric acid, monohydrate

CAS-No. 5949-29-1

###### Acute toxicity

###### Fish

LC50 : 440 mg/l (Leuciscus idus melanotus; 48 h) (static test; OECD Test Guideline 203)

###### Toxicity to daphnia and other aquatic invertebrates

LC50 : 1535 mg/l (Daphnia magna (Water flea); 24 h) (static test)

##### 12.2. Persistence and degradability

###### Component:

Citric acid, monohydrate

CAS-No. 5949-29-1

###### Persistence and degradability

###### Persistence

Result : no data available

###### Biodegradability

Result : 97 % (10 mg/l; Related to: CO<sub>2</sub> formation (% of the theoretical value).; Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.

##### 12.3. Bioaccumulative potential

<b>Component:</b>	<b>Citric acid, monohydrate</b>	<b>CAS-No. 5949-29-1</b>
<b>Bioaccumulation</b>		
Result	: Bioaccumulation is not expected.	
<b>12.4. Mobility in soil</b>		
<b>Component:</b>	<b>Citric acid, monohydrate</b>	<b>CAS-No. 5949-29-1</b>
<b>Mobility</b>		
	: no data available	
<b>12.5. Results of PBT and vPvB assessment</b>		

<b>Component:</b>	<b>Citric acid, monohydrate</b>	<b>CAS-No. 5949-29-1</b>
<b>Results of PBT and vPvB assessment</b>		
Result	: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB). <b>Other adverse effects</b>	
<b>12.6. Data for the product</b>		
<b>Additional ecological information</b>		
Result	: Do not flush into surface water or sanitary sewer system.	

**13. Disposal considerations**

**13.1. Waste treatment methods**

**Product**

Product should be disposed in accordance with relevant regulations .

**14. Transport information**

**Section 14.1. to 14.5.**

<b>ADR</b>	not restricted
<b>ADNR</b>	not restricted
<b>RID</b>	not restricted
<b>IATA</b>	not restricted
<b>IMDG</b>	not restricted

**14.6. Special precautions for user** See sections 6 to 8 of this Safety Data Sheet.

### 15. Regulatory information

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

Other regulations: Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2. Chemical safety assessment: No chemical safety assessment has been processed for the mixture.

### 16. Other information

Legend

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
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
MARPOL	International Convention for the Prevention of Pollution From Ships
OEL	Occupational Exposure Limit
PBT	Persistent, Bio accumulative, Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.