



**mirius™**  
A Coventry Group Company

**SAFETY DATA SHEET**  
**TRICEL PROFESSIONAL DISHWASHER CAPSULES**  
Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

**1.1. Product identifier**

**Product name** TRICEL PROFESSIONAL DISHWASHER CAPSULES  
**Product number** 800-300-5826  
**Internal identification** 57810; R5212

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

**Identified uses** Machine dishwashing detergent.

**1.3. Details of the supplier of the safety data sheet**

**Supplier** MIRIUS™  
A Coventry Group Company  
Woodhams Road, Siskin Drive,  
Coventry, England, CV3 4FX  
www.mirius.com  
info@mirius.com  
+442476639739

**Contact person** For content of safety data sheet., sds@mirius.com

**Manufacturer** SENZORA BV  
Postbus 104 7400 AC Deventer - Nederland T +31 570 683333 - F +31 570 617126  
info@senzora.nl - www.senzora.com

**1.4. Emergency telephone number**

**Emergency telephone** Guy's & St Thomas' Poisons Unit +44 20 7188 7188

**National emergency telephone number** In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

**SECTION 2: Hazards identification**

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

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified  
**Health hazards** Eye Irrit. 2 - H319  
**Environmental hazards** Not Classified

**2.2. Label elements**

**Hazard pictograms**



**Signal word** Warning

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<b>Hazard statements</b>	H319 Causes serious eye irritation.
<b>Precautionary statements</b>	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P264 Wash hands thoroughly after handling.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p>

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>SODIUM CARBONATE</b>		<b>10-30%</b>
CAS number: 497-19-8	EC number: 207-838-8	REACH registration number: 01-2119485498-19-XXXX
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Eye Irrit. 2 - H319	Xi;R36	

<b>SODIUM PERCARBONATE</b>		<b>5-10%</b>
CAS number: 15630-89-4		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Ox. Sol. 3 - H272 Acute Tox. 4 - H302 Eye Dam. 1 - H318	Xn;R22. Xi;R41. O;R8.	

<b>ZINC SULPHATE</b>		<b>&lt;1%</b>
CAS number: 7446-20-0	EC number: 231-793-3	REACH registration number: 01-2119474684-27-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Xn;R22 Xi;R41 N;R50/53	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Provide eyewash station.
<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

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**Skin contact** Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

**Inhalation** May cause respiratory irritation.

**Ingestion** May cause discomfort if swallowed. Nausea, vomiting. Diarrhoea.

**Skin contact** Prolonged skin contact may cause redness and irritation.

**Eye contact** Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

**Notes for the doctor** No specific recommendations.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire. Foam. Powder. Carbon dioxide (CO<sub>2</sub>). Water spray.

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

**Specific hazards** The product is non-combustible.

**Hazardous combustion products** No known hazardous decomposition products.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Avoid inhalation of dust. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up** Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. If involved in a fire, shut off flow if it can be done without risk.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

## TRICEL PROFESSIONAL DISHWASHER CAPSULES

### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product.

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

**Storage precautions** Store in tightly-closed, original container. Keep container dry.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

#### SODIUM CARBONATE (CAS: 497-19-8)

**DNEL** Workers - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>  
General population - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>

#### SODIUM PERCARBONATE (CAS: 15630-89-4)

**DNEL** Workers - Inhalation; Long term local effects: 5 mg/m<sup>3</sup>  
Workers - Dermal; Long term local effects: 12.8 mg/cm<sup>2</sup>  
Workers - Dermal; Short term local effects: 12.8 mg/cm<sup>2</sup>  
General population - Dermal; Long term local effects: 6.4 mg/cm<sup>2</sup>  
General population - Dermal; Short term local effects: 6.4 mg/cm<sup>2</sup>

**PNEC** - Fresh water; 0.035 mg/l  
- marine water; 0.035 mg/l  
- STP; 16.24 mg/l

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls**

Provide adequate ventilation.

**Eye/face protection**

Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex).

**Other skin and body protection**

Wear appropriate clothing to prevent repeated or prolonged skin contact. Use appropriate skin cream to prevent drying of skin.

**Hygiene measures**

When using do not eat, drink or smoke. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Use appropriate skin cream to prevent drying of skin.

**Respiratory protection**

Respiratory protection not required.

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**Environmental exposure controls**          Avoid releasing into the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Tablet
<b>Colour</b>	White with blue, red and green speckles.
<b>Odour</b>	Citrus.
<b>Odour threshold</b>	Not applicable. Not applicable.
<b>pH</b>	pH (concentrated solution): pH (diluted solution): 10.4-10.8 @ 1% solution
<b>Relative density</b>	0.98-1.14 @ @ 20°C
<b>Viscosity</b>	Not applicable.
<b>Oxidising properties</b>	The product contains a substance classified as oxidising. Does not meet the criteria for classification as oxidising.
<b>Comments</b>	Information given concerns the solid substance.

#### 9.2. Other information

**Other information**          Not relevant.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity**          There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability**          Stable at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**          Not applicable.

#### 10.4. Conditions to avoid

**Conditions to avoid**          Water, moisture.

#### 10.5. Incompatible materials

**Materials to avoid**          Do not mix with other cleaning chemicals

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products**          None when stored and handled correctly

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects**          Information given is based on data of the components and of similar products.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)**          Estimated value. Based on available data the classification criteria are not met.

**ATE oral (mg/kg)**          20,680.0

#### Acute toxicity - dermal

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<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Does not contain any substances known to be mutagenic.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Does not contain any substances known to be carcinogenic.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Does not contain any substances known to be toxic to reproduction.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>General information</u></b>	
<b>General information</b>	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
<b>Inhalation</b>	No risk from inhalation in normal use
<b>Ingestion</b>	Large quantities swallowed may cause gastro-intestino irritation, possibly vomiting
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

### Toxicological information on ingredients.

#### SODIUM CARBONATE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 2,800.0  
mg/kg)

Species Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0  
mg/kg)

Species Rabbit

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### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l) 2.3

Species Rat

### SODIUM PERCARBONATE

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 1,034.0

Species Rat

ATE oral (mg/kg) 1,034.0

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.1

Species Rabbit

ATE dermal (mg/kg) 2,000.1

## SECTION 12: Ecological information

**Ecotoxicity** There are no data on the ecotoxicity of this product. Not regarded as dangerous for the environment.

### 12.1. Toxicity

#### Ecological information on ingredients.

### SODIUM CARBONATE

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 300 mg/l, *Lepomis macrochirus* (Bluegill)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 265 mg/l, *Daphnia magna*

### SODIUM PERCARBONATE

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 70.7 hours: 48 mg/l, *Pimephales promelas* (Fat-head Minnow)  
REACH dossier information.

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 4.9 mg/l, Freshwater invertebrates  
REACH dossier information.

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product. The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

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### 12.4. Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Do not discharge into drains or watercourses or onto the ground.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Packaging is recyclable.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78 and the IBC Code**

## SECTION 15: Regulatory information

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

**National regulations** The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).



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<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006,
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. COSHH Essentials. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

### 15.2. Chemical safety assessment

No information available.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	28/02/2020
<b>Revision</b>	1
<b>SDS number</b>	22214
<b>Hazard statements in full</b>	H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.