

# CLEENOL

For a cleaner, safer world

## SAFETY DATA SHEET OSMOS SOFT WATER DISHWASHER DETERGENT

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

#### 1.1. Product identifier

|                         |                                        |
|-------------------------|----------------------------------------|
| Product name            | OSMOS SOFT WATER DISHWASHER DETERGENT  |
| Internal identification | OSM-SWDD-2X5, OSM-SWDD-10, OSM-SWDD-20 |
| Container size          | 2x5L, 10L, 20L                         |

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

|                 |            |
|-----------------|------------|
| Identified uses | Detergent. |
|-----------------|------------|

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

|          |                                                                                                                                         |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Supplier | Cleenol Group Ltd<br>Neville House<br>Beaumont Road<br>Banbury<br>Oxon OX16 1RB<br>UK<br>Tel: +44 (0)1295 251721<br>sales@cleenol.co.uk |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------|

#### 1.4. Emergency telephone number

|                     |                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------|
| Emergency telephone | In case of a medical emergency following exposure to a chemical, call NHS Direct via 111 (UK only). |
|---------------------|-----------------------------------------------------------------------------------------------------|

### SECTION 2: Hazards identification

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

##### Classification (SI 2019 No. 720)

|                       |                                        |
|-----------------------|----------------------------------------|
| Physical hazards      | Not Classified                         |
| Health hazards        | Skin Corr. 1A - H314 Eye Dam. 1 - H318 |
| Environmental hazards | Not Classified                         |

#### 2.2. Label elements

##### Hazard pictograms



|                   |                                               |
|-------------------|-----------------------------------------------|
| Signal word       | Danger                                        |
| Hazard statements | H314 Causes severe skin burns and eye damage. |

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|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautionary statements</b>               | <p>P260 Do not breathe vapour/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</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>P363 Wash contaminated clothing before reuse.</p> |
| <b>Contains</b>                               | SODIUM HYDROXIDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Supplementary precautionary statements</b> | <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>                                                                                                                                                   |

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

|                                                                     |                      |
|---------------------------------------------------------------------|----------------------|
| <b>SODIUM HYDROXIDE</b>                                             | <b>10-30%</b>        |
| CAS number: 1310-73-2                                               | EC number: 215-185-5 |
| <b>Classification</b><br>Skin Corr. 1A - H314<br>Eye Dam. 1 - H318  |                      |
| <b>(1-hydroxyethylidene)bisphosphonic acid, sodium salt</b>         | <b>1-5%</b>          |
| CAS number: 29329-71-3                                              | EC number: 249-559-4 |
| <b>Classification</b><br>Acute Tox. 4 - H302<br>Eye Irrit. 2 - H319 |                      |

The full text for all hazard statements is displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

|                     |                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Unlikely route of exposure as the product does not contain volatile substances.                                                                                               |
| <b>Ingestion</b>    | Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Get medical attention.             |
| <b>Skin contact</b> | After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if symptoms are severe or persist.  |
| <b>Eye contact</b>  | Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if any discomfort continues. |

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

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| <b>Inhalation</b> | The product is considered to be a low hazard under normal conditions of use. |
| <b>Ingestion</b>  | Corrosive. May be harmful if swallowed.                                      |

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**Skin contact** Causes severe burns.

**Eye contact** Causes serious eye damage.

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

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

**Specific treatments** Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** None known.

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

**Specific hazards** Thermal decomposition or combustion products may include the following substances:  
Corrosive gases or vapours.

### **5.3. Advice for firefighters**

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Fight fire with normal precautions from a reasonable distance.

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials. Firefighter's clothing will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Do not touch or walk into spilled material.

### **6.2. Environmental precautions**

**Environmental precautions** Avoid discharge to the aquatic environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

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

**Methods for cleaning up** Clear up spills immediately and dispose of waste safely. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Discharge of small quantities to the sewer with plenty of water may be permitted.

### **6.4. Reference to other sections**

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Usage precautions** For professional users only. Handle and open container with care. Avoid contact with skin, eyes and clothing.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated.

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

**Storage precautions** Store in tightly-closed, original container. Store at temperatures between 0°C and 40°C.

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**Storage class** Chemical storage. Corrosive storage.

### 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

#### Occupational exposure limits

#### SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls** No specific ventilation requirements.

**Eye/face protection** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn.

**Hand protection** It is recommended that chemical-resistant, impervious gloves are worn. Wear protective gloves made of the following material: Rubber (natural, latex). Nitrile rubber. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.

**Hygiene measures** Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

**Respiratory protection** No specific requirements are anticipated under normal conditions of use. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

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

|                                  |                                 |
|----------------------------------|---------------------------------|
| <b>Appearance</b>                | Clear liquid.                   |
| <b>Colour</b>                    | Colourless.                     |
| <b>Odour</b>                     | Almost odourless.               |
| <b>pH</b>                        | pH (concentrated solution): >13 |
| <b>Flash point</b>               | Not applicable.                 |
| <b>Relative density</b>          | 1.165 - 1.185 @ 20°C            |
| <b>Solubility(ies)</b>           | Soluble in water.               |
| <b>Auto-ignition temperature</b> | Not applicable.                 |
| <b>Decomposition Temperature</b> | >120°C                          |
| <b>Viscosity</b>                 | Not applicable.                 |
| <b>Explosive properties</b>      | Not applicable.                 |

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**Oxidising properties** Does not meet the criteria for classification as oxidising.

### 9.2. Other information

**Refractive index** 26 - 28

**Volatile organic compound** This product contains a maximum VOC content of <0.1 %.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The reactivity data for this product will be typical of those for the following class of materials: Strong alkalis.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Under normal conditions of storage and use, no hazardous reactions will occur.

### 10.4. Conditions to avoid

**Conditions to avoid** No specific requirements are anticipated under normal conditions of use. Avoid contact with acids.

### 10.5. Incompatible materials

**Materials to avoid** Chemically-active metals.

### 10.6. Hazardous decomposition products

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

## 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

**ATE oral (mg/kg)** 17,006.8

#### Skin corrosion/irritation

**Skin corrosion/irritation** Causes severe burns.

**Extreme pH**  $\geq 11.5$

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

**Inhalation** Considered to be a low inhalation hazard at normal workplace temperatures. May cause irritation.

**Ingestion** Corrosive. May be harmful if swallowed.

**Skin contact** Causes severe burns.

**Eye contact** Causes serious eye damage.

**Route of exposure** Skin and/or eye contact

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**Medical considerations** Pre-existing eye problems.

### SECTION 12: Ecological information

**Ecotoxicity** The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

#### 12.1. Toxicity

**Toxicity** The product is not believed to present a hazard due to its physical nature.

#### 12.2. Persistence and degradability

**Persistence and degradability** The product contains mainly inorganic substances which are not biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

#### 12.4. Mobility in soil

**Mobility** The product contains substances which are 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** Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

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

### SECTION 14: Transport information

#### 14.1. UN number

**UN No. (ADR/RID)** 1760

**UN No. (IMDG)** 1760

**UN No. (ICAO)** 1760

**UN No. (ADN)** 1760

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)

**Proper shipping name (IMDG)** CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)

**Proper shipping name (ICAO)** CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)

**Proper shipping name (ADN)** CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)

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### 14.3. Transport hazard class(es)

|                             |    |
|-----------------------------|----|
| ADR/RID class               | 8  |
| ADR/RID classification code | C9 |
| ADR/RID label               | 8  |
| IMDG class                  | 8  |
| ICAO class/division         | 8  |
| ADN class                   | 8  |

#### Transport labels



### 14.4. Packing group

|                       |    |
|-----------------------|----|
| ADR/RID packing group | II |
| IMDG packing group    | II |
| ICAO packing group    | II |
| ADN packing group     | II |

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

|                                           |          |
|-------------------------------------------|----------|
| EmS                                       | F-A, S-B |
| ADR transport category                    | 2        |
| Emergency Action Code                     | 2X       |
| Hazard Identification Number<br>(ADR/RID) | 80       |
| Tunnel restriction code                   | (E)      |

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

Transport in bulk according to Annex II of MARPOL 73/78  
and the IBC Code Not applicable.

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### SECTION 15: Regulatory information

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

**National regulations** The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

|                                  |                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Issued by</b>                 | Regulatory Chemist                                                                                                                                    |
| <b>Revision date</b>             | 27/09/2021                                                                                                                                            |
| <b>Revision</b>                  | 6                                                                                                                                                     |
| <b>Supersedes date</b>           | 02/08/2021                                                                                                                                            |
| <b>SDS number</b>                | 21284                                                                                                                                                 |
| <b>Hazard statements in full</b> | H302 Harmful if swallowed.<br>H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation. |

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.