

# CLEENOL

For a cleaner, safer world

## SAFETY DATA SHEET OSMOS ALUMINIUM-SAFE DISHWASHER DETERGENT

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

#### 1.1. Product identifier

Product name	OSMOS ALUMINIUM-SAFE DISHWASHER DETERGENT
Internal identification	OSM-ASDD-2X5, OSM-ASDD-20
Container size	2x5L, 20L
UFI	UFI: XHK0-N0S8-1000-XDU8

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

Identified uses	Detergent.
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#### 1.3. Details of the supplier of the safety data sheet

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

## OSMOS ALUMINIUM-SAFE DISHWASHER DETERGENT

<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 METASILICATE
<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>(1-hydroxyethylidene)bisphosphonic acid, sodium salt</b>	<b>10-30%</b>
CAS number: 29329-71-3                      EC number: 249-559-4	
<b>Classification</b> Acute Tox. 4 - H302 Eye Irrit. 2 - H319	
<b>SODIUM METASILICATE</b>	<b>5-10%</b>
CAS number: 10213-79-3                      EC number: 229-912-9	
<b>Classification</b> Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	
<b>SODIUM HYDROXIDE</b>	<b>&lt;1%</b>
CAS number: 1310-73-2                      EC number: 215-185-5	
<b>Classification</b> Skin Corr. 1A - H314 Eye Dam. 1 - H318	

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

## OSMOS ALUMINIUM-SAFE DISHWASHER DETERGENT

### 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>	Rinse mouth thoroughly with water. Do not induce vomiting. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Rinse immediately with plenty of water. Continue to rinse. Get medical attention.

#### 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.
<b>Skin contact</b>	Causes severe burns.
<b>Eye contact</b>	Causes serious eye damage.

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

<b>Notes for the doctor</b>	No specific recommendations.
<b>Specific treatments</b>	Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	None known.

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

<b>Specific hazards</b>	Water used for fire extinguishing, which has been in contact with the product, may be corrosive.
<b>Hazardous combustion products</b>	Corrosive gases or vapours.

#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. 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

<b>Personal precautions</b>	Avoid contact with skin, eyes and clothing. Do not touch or walk into spilled material. Take care as floors and other surfaces may become slippery. Wash thoroughly after dealing with a spillage.
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### 6.2. Environmental precautions

**Environmental precautions** Avoid or minimise the creation of any environmental contamination.

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

**Methods for cleaning up** Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Dispose of contents/container in accordance with national regulations. Flush contaminated area with plenty of water. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely.

### 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. Avoid contact with skin, eyes and clothing. Avoid spilling.

**Advice on general occupational hygiene** Wash hands thoroughly after handling.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**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.

#### SODIUM METASILICATE (CAS: 10213-79-3)

<b>DNEL</b>	Workers - Dermal; Long term : 1.49 mg/kg/day
	Workers - Inhalation; Long term : 6.22 mg/m <sup>3</sup>
	Consumer - Dermal; Long term : 0.74 mg/kg/day
	Consumer - Inhalation; Long term : 1.55 mg/m <sup>3</sup>
	Consumer - Oral; Long term : 0.74 mg/kg/day

<b>PNEC</b>	Fresh water; 7.5 mg/l
	marine water; 1 mg/l
	Water, Intermittent release; 7.5 mg/l
	STP; 1000 mg/l

### 8.2. Exposure controls

#### Protective equipment



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

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<b>Eye/face protection</b>	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.
<b>Hand protection</b>	It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Wear protective gloves made of the following material: Nitrile rubber. Rubber (natural, latex).
<b>Hygiene measures</b>	Wash hands thoroughly after handling.
<b>Respiratory protection</b>	No specific requirements are anticipated under normal conditions of use.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless to pale yellow.
<b>Odour</b>	Odourless.
<b>pH</b>	pH (concentrated solution): 12.5 - 13.5
<b>Initial boiling point and range</b>	100°C @ 760 mm Hg
<b>Flash point</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Relative density</b>	~ 1.19 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.
<b>Explosive properties</b>	Not applicable.
<b>Explosive under the influence of a flame</b>	No
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

#### 9.2. Other information

<b>Refractive index</b>	26 - 28
<b>Volatility</b>	Not applicable.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of <1 %.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	None known.
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## OSMOS ALUMINIUM-SAFE DISHWASHER DETERGENT

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with acids.

### 10.5. Incompatible materials

**Materials to avoid** No specific requirements are anticipated under normal conditions of use.

### 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)** 2,834.47

#### 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** The product is considered to be a low hazard under normal conditions of use.

**Ingestion** Corrosive. May cause chemical burns in mouth and throat.

**Skin contact** Causes severe burns.

**Eye contact** Causes serious eye damage.

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

### Toxicological information on ingredients.

#### (1-hydroxyethylidene)bisphosphonic acid, sodium salt

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,100.0

**Species** Rat

**ATE oral (mg/kg)** 500.0

## 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.

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### 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 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** Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out.

**Disposal methods** 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.

## SECTION 14: Transport information

### 14.1. UN number

<b>UN No. (ADR/RID)</b>	1760
<b>UN No. (IMDG)</b>	1760
<b>UN No. (ICAO)</b>	1760
<b>UN No. (ADN)</b>	1760

### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	CORROSIVE LIQUID, N.O.S. (DISODIUM METASILICATE, SODIUM HYDROXIDE)
<b>Proper shipping name (IMDG)</b>	CORROSIVE LIQUID, N.O.S. (DISODIUM METASILICATE, SODIUM HYDROXIDE)
<b>Proper shipping name (ICAO)</b>	CORROSIVE LIQUID, N.O.S. (DISODIUM METASILICATE, SODIUM HYDROXIDE)
<b>Proper shipping name (ADN)</b>	CORROSIVE LIQUID, N.O.S. (DISODIUM METASILICATE, SODIUM HYDROXIDE)

### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	8
<b>ADR/RID classification code</b>	C9
<b>ADR/RID label</b>	8
<b>IMDG class</b>	8
<b>ICAO class/division</b>	8
<b>ADN class</b>	8

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### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (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.

### 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

Issued by	Regulatory Chemist
Revision date	04/10/2021
Revision	21
Supersedes date	02/08/2021
SDS number	10409



## OSMOS ALUMINIUM-SAFE DISHWASHER DETERGENT

<b>Hazard statements in full</b>	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. H335 May cause respiratory irritation.
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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.