CLEENOL For a cleaner, safer world

SAFETY DATA SHEET
OSMOS DISHWASHER DETERGENT

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

1.1. Product identifier

Product name OSMOS DISHWASHER DETERGENT

Internal identification OSM-DD-2X5, OSM-DD-10, OSM-DD-20

Container size 2x5L, 10L, 20L

UFI UFI: C4V0-80SX-N00G-3F3V

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
Neville House
Beaumont Road
Banbury
Oxon OX16 1RB
UK
Tel: +44 (0)1295 251721
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.

OSMOS DISHWASHER DETERGENT

Precautionary statements
P260 Do not breathe vapour/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.

Contains
SODIUM HYDROXIDE

Supplementary precautionary statements
P264 Wash contaminated skin thoroughly after handling.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see medical advice on this label).
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

(1-hydroxyethylidene)bisphosphonic acid, sodium salt **5-10%**

CAS number: 29329-71-3 EC number: 249-559-4

Classification
Acute Tox. 4 - H302
Eye Irrit. 2 - H319

SODIUM HYDROXIDE **5-10%**

CAS number: 1310-73-2 EC number: 215-185-5

Classification
Skin Corr. 1A - H314
Eye Dam. 1 - H318

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Unlikely route of exposure as the product does not contain volatile substances.

Ingestion
Rinse mouth thoroughly with water. Do not induce vomiting. Give a few small glasses of water or milk to drink. Keep affected person under observation. Get medical attention if any discomfort continues.

Skin contact
Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if symptoms are severe or persist after washing.

Eye contact
Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if symptoms are severe or persist after washing.

OSMOS DISHWASHER DETERGENT

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

Inhalation Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.

Ingestion Corrosive. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Contact with concentrated chemical may cause severe skin damage.

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 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 Not regarded as dangerous for the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Following dilution, discharge 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.

OSMOS DISHWASHER DETERGENT

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container. Container must be kept tightly closed when not in use.

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/m³
WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate ventilation.

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: Nitrile rubber. Rubber (natural, latex). 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.

Respiratory protection 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

Appearance Clear liquid.

Colour Straw.

Odour Odourless.

pH pH (concentrated solution): 13.6

Initial boiling point and range 100°C @ 760 mm Hg

Flash point Not applicable.

Flammability (solid, gas) Not applicable.

Relative density ~ 1.13 @ 20°C

Solubility(ies) Soluble in water.

Auto-ignition temperature Not applicable.

OSMOS DISHWASHER DETERGENT

Decomposition Temperature Not determined.

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

9.2. Other information

Refractive index 21.7

Volatile organic compound Not applicable.

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 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.

10.5. Incompatible materials

Materials to avoid Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

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) 6,493.51

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Extreme pH ≥ 11.5

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Inhalation Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.

Ingestion Corrosive. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Contact with concentrated chemical may cause severe skin damage.

Eye contact Causes serious eye damage.

Medical considerations Pre-existing eye problems.

OSMOS DISHWASHER DETERGENT

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

Disposal methods Dispose of contents/container in accordance with national regulations. Following dilution, discharge to the sewer with plenty of water may be permitted.

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)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C9

OSMOS DISHWASHER DETERGENT

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 (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).

OSMOS DISHWASHER DETERGENT

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	Regulatory Chemist
Revision date	03/08/2021
Revision	22
Supersedes date	15/01/2021
SDS number	10110
Hazard statements in full	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation.