

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: Monarch ExtraProduct Part Number: W-MONX

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

- Use of the substance/mixture: Machine dishwashing detergent.

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Chemisphere UK LtdAddress of Supplier: Unit 4 Richmond Road

Trafford Park Manchester M17 1RE

Telephone: +44 (0) 161 874 7200Responsible Person: Wilfred Worsley

- Email: safetydata@chemisphereuk.co.uk

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 776 724 8499

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Skin Corr. 1A

2.2 Label elements



- Signal Word: Danger

- Hazard statements

Causes severe skin burns and eye damage.

Toxic to aquatic life.

- Precautionary statements

Keep out of reach of children.

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

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

Get immediate medical advice/attention.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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SECTION 2: Hazards identification (....)

Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

shower].

If skin irritation occurs: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

Contains: Potassium hydroxide Sodium hypochlorite

- Supplemental Hazard information (EU)

Contact with acids liberates toxic gas.

2.3 Hazards identification

- Not a PBT according to REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.2 Mixtures

- Potassium hydroxide

CAS Number: 1310-58-3 EC Number: 215-181-3 Concentration: 1 - 20%

Categories: Acute Tox. 4, Skin Corr. 1A

Symbols: GHS05;GHS07 H Statements: H302;H314

- Sodium metasilicate pentahydrate

CAS Number: 10213-79-3 EC Number: 229-912-9 Concentration: <5%

Categories: Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3

Symbols: GHS05;GHS07 H Statements: H290;H314;H335

- Tetrapotassium Pyrophosphate TKPP

CAS Number: 7320-34-5
EC Number: 230-785-7
Concentration: 1 - 20%
Categories: Eye Irrit. 2
Symbols: GHS07
H Statements: H319

- Etidronic acid

CAS Number: 2809-21-4

EC Number:

Concentration: < 5%

SECTION 3: Composition/information on ingredients (....)

Categories: Met. Corr. 1, Acute Tox. 4, Eye Dam. 1

Symbols: GHS05

H Statements: H302;H318;H290

- Sodium hypochlorite, solution ... % Cl active

CAS Number: 7681-52-9 EC Number: 231-668-3 Concentration: < 5%

Categories: Skin Corr. 1B; Aquatic Acute 1

Symbols: GHS05,GHS09 H Statements: H314,H400,EUH031

SECTION 4: First aid measures

4.1 Description of first aid measures

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes

Causes severe burns

Risk of serious damage to eyes

May cause permanent damage if eye is not immediately irrigated.

- Ingestion

Causes severe burns

Causes damage to the digestive tract if swallowed

- Inhalation

Corrosive to the respiratory tract.

Can cause damage to the respiratory system

- Contact with skin

Corrosive to skin

Causes severe burns

4.3 Indication of any immediate medical attention and special treatment needed

- If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures (....)

- May give off noxious and toxic fumes in a fire

5.3 Advice for firefighters

- Wear chemical protection suit and breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes
- Avoid breathing dust/fume/gas/mist/vapours/spray.

6.2 Environmental precautions

- For large spills:. Do not allow product to enter drains. For small spills:. Flush down the drain with plenty of water.

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up

6.4 Reference to other sections

- Wear protective clothing as per section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid contact with skin and eyes
- Do not breathe vapour/fumes
- Do not mix with any other products
- Proper chemicals handling procedures should be adopted
- Handle and open container with care
- Ensure adequate ventilation

7.2 Conditions for safe storage, including any incompatibilities

- Keep locked up and out of reach of children
- Keep only in the original container in a cool, well ventilated place away from acid
- Incompatible with acid
- Protect from sunlight.

7.3 Specific end use(s)

- Washing crockery and cutlery in a cabinet dishwashing machine.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Potassium hydroxide

WEL: 2 mg/m3

DNEL (Industry; inhalational, long term local effects): 1 mg/m3

SECTION 8: Exposure controls/personal protection (....)

DNEL (Consumer; inhalational, long term local effects): 1 mg/m3

- Sodium metasilicate pentahydrate

DNEL (Industry; dermal, long term local effects): 1.49 mg/kg/day DNEL (Industry; inhalational, long term local effects): 6.22 mg/m3

DNEL (oral): 0.74 mg/kg/day

- Tetrapotassium Pyrophosphate TKPP

DNEL (oral): > 70 mg/kg

DNEL (Industry; inhalational, long term systemic effects): 2.79 mg/m3

DNEL (Consumer; inhalational, long term systemic effects): 0.68 mg/m3

- Etidronic acid

DNEL (oral): 13 mg/kg/day

- Sodium hypochlorite, solution ... % Cl active

DNEL (Industry; inhalational, long term local effects): 1.55 mg/m3

DNEL (Consumer; inhalational, long term local effects): 1.55 mg/m3

DNEL (Consumer; inhalational, short term local effects): 3.1 mg/m3

8.2 Exposure controls

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



Goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Liquid, pale yellow Odour: Slight smell of chlorine

>13 - pH:

- Density: 1.22 g/cm3 at 20 deg C

- Conductivity: Not available - Solubility in water: Soluble in water - Flammability: Not flammable

9.2 Other information

- No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

- Reacts with acid

10.2 Chemical stability

- Considered stable under normal conditions

SECTION 10: Stability and reactivity (....)

10.3 Possibility of hazardous reactions

- Contact with acid may form toxic gases

10.4 Conditions to avoid

- Keep away from heat, light and moisture

10.5 Incompatible materials

- Avoid contact with acid
- Avoid contact with aluminium
- Avoid contact with zinc
- Avoid contact with tin

10.6 Hazardous decomposition products

- No hazardous decomposition products known

SECTION 11: Toxicological information

11.1 Contact with eyes

- Causes serious eye damage.

11.2 Ingestion

- Causes damage to the digestive tract
- Causes damage to the stomach lining

11.3 Inhalation

- Corrosive to the respiratory tract.

11.4 Contact with skin

- Causes severe burns

11.5 Information on toxicological effects

- Potassium hydroxide

LD50 (oral, rat): 333 mg/kg

- Tetrapotassium Pyrophosphate TKPP

LD50 (dermal, rabbit): > 2000 mg/kg LD50 (oral, rat): > 2000 mg/kg

- Etidronic acid

LD50 (dermal, rabbit): 6000 mg/kg LD50 (oral, rat): 1.878 mg/kg

- Sodium hypochlorite, solution ... % Cl active

LD50 (oral, rat): > 1200 mg/kg LD50 (dermal): > 2000 mg/kg LC50 (inhalation, rat): 10500 mg/l

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SECTION 12: Ecological information

12.1 Toxicity

- Potassium hydroxide

EC50 (daphnia): 40-240 mg/l (48 hr)

LC50 (fish): 80 mg/l (96 hr)

- Sodium metasilicate pentahydrate

EC50 (daphnia): 1700 mg/l (48 hr)

LC50 (fish): 210 mg/l (96 hr)

- Tetrapotassium Pyrophosphate TKPP

IC50 (algae): >100 mg/l (72 hr)

EC50 (daphnia): >100 mg/l (48 hr)

LC50 (fish): >100 mg/l (96 hr)

- Etidronic acid

LC50 (fish): 868 mg/l (96 hr)

- Sodium hypochlorite, solution ... % Cl active

LC50 (fish): 0.06 mg/l (96 hr)

12.2 Persistence and degradability

- Not readily biodegradable

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- Soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

SECTION 14: Transport information



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SECTION 14: Transport information (....)

14.1 UN number

- UN No.: 3266

14.2 Proper Shipping Name

- Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide)

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: II.

14.5 Environmental hazards

- None assigned

14.6 Special precautions for user

- Identification Number: 80

- IMDG EmS: F-A, S-B - Tunnel Code: (E)

- Contains: Potassium hydroxide

14.7 Emergency Action Code

- 2R

14.8 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- EUH031: Contact with acids liberates toxic gas. 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. H400: Very toxic to aquatic life.

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.

SECTION 16: Other information (....)

--- end of safety datasheet ---

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