

CHEMISPHERE UK Ltd

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1 Identification of the substance/preparation and company

NAME:

MONARCH

Manufactured by: CHEMISPHERE UK Ltd [above]

Emergency Tel No: 0800 018 8062(UK) / 00 44 1536 518 062

2 Composition/information on ingredients

<u>Ingredient</u>	<u>%(w/w)</u>	<u>Classification</u>	<u>Risk</u>
Potassium Hydroxide	>5%	C;R35	Causes severe burns
Sodium Hypochlorite	<5%	C;R31 R34	Contact with acids liberates toxic gas Causes burns
Sodium Metasilicate	<5%	C;R34	Causes burns
Phosphonic Acid	<5%	C;R34 R41	Causes burns Risk of serious damage to eyes

3 Hazards information

Causes irritation - possibly burns - in cases of contact with skin.
Causes severe irritation or blistering in case of contact with eyes, respiratory and digestive systems.
Contact with acids liberates toxic gas.

4 First-aid measures

<u>Route of exposure</u>	<u>Symptom</u>	<u>Treatment</u>
Inhalation	N/A	
Skin contact	Irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before re-use. If large areas of the skin is damaged or if irritation persists, seek medical attention.
Eye contact	Pain, reddening, watering, irritation	Irrigate thoroughly with water for at least 10 minutes. Seek medical attention.
Ingestion	Burns to or blistering of the gastronomic tract	Wash out mouth with water. Do <i>not</i> induce vomiting. Give water, milk or fruit juice to drink. Seek medical attention.

5 Fire-fighting measures

Non-flammable Not applicable

6 Accidental release measures

Personal precautions	Wear appropriate personal protection equipment. See section 8.
Disposal considerations	Dilute material can be run to drain. Rinse container out with water before disposing of the container considerably.
Spillages	Dilute with water and mop up or flush to drain.

7 Handling & storage

Handling	Avoid contact with eyes and skin or ingestion for both concentrate and diluted product. Particular care should be taken when dispensing the concentrated material to avoid splashes into eyes or on to the skin. Never use as spray. Wear appropriate personal protection equipment; see 8 below Use in well ventilated area. Never mix with acids, other chemicals, cleaning preparations or liquids other than water. Always use appropriate safety equipment and/or accessories where supplied. Always reseal container immediately after use.
Storage	Keep out of reach of children at all times. Do not stack individual containers. Cartons may only be stacked four high if dry, sealed and correctly interlocked on a pallet. Wrapping is recommended for long-term storage and for transporting. Store at ambient temperature. Ensure storage in a location to avoid crushing, collapsing, dropping or damage. Store away from acids.

8 Exposure controls/personal protection

Respiratory	Not applicable.
Hand protection	Rubber or PVC gloves.
Eye protection	Goggles.
Skin	Overalls, PVC apron.

9 Physical & chemical properties

Appearance	Clear yellow-green aqueous liquid.
Odour	Faint.
pH	12.9
Flammability	Non-flammable.
Relative Density	1.27 at 20°C.

10 Stability & reactivity

Stability	No decomposition if stored and handled as directed, but for gradual loss of entrained chlorine to atmosphere over prolonged period (months - years).
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Conditions to avoid May decompose at very high temperatures.
Materials to avoid Contact with acids liberates toxic gas (chlorine). Do not mix with other chemicals or cleaning preparations.
Hazardous decomposition products May generate some chlorine if overheated or evaporated to dryness.

11 Toxicological information

Inhalation Not applicable.
Skin contact May result in severe irritation or even burns.
Eye contact May result in severe irritation or even burns, causing permanent eye damage.
Ingestion May result in damage to the gastrointestinal tract.

12 Ecological information

Mobility Soluble in water. Will readily percolate through soil.
Degradability Not biodegradable; but degradable by dilution and will neutralise with time.
Accumulation No evidence of bioaccumulation.
Environmental effects The high pH of the *undiluted* product may cause a danger to insects, plants, animals and aquatic life.

13 Disposal considerations

Material Undiluted material must be disposed of in accordance with local authority regulations. Dilute material can be run off to drain.
Container Empty containers should be rinsed out thoroughly prior to disposal.

14 Transport information

U N No 3266
Shipping name Corrosive liquid, basic, inorganic, N O S.
Shipping class 8
Hazard classification Corrosive
Packing group II
H I No 80
Emergency action 2X

15 Regulatory information

Classification Corrosive
Risk phrases R35 Causes severe burns
R31 Contact with acids liberates toxic gas.
Safety phrases S1/2 Keep locked up and out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately; show the product label where possible.

16 Other information

Recommended uses & restrictions MONARCH is recommended for use as the detergent element of commercial cabinet glasswashing systems; it is intended to complement FINESSE G rinse additive.

Do not use either the undiluted or diluted product as a spray.

Do not use in any other application than that which is suggested or declared on the label or product brochure.

Disclaimer: The above information is based on the state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the quality or the specification of the product. No warranty is given if the product is used for any other purpose other than that suggested, recommended or declared on the product label or brochure. The user must satisfy him/herself that the product is entirely suitable for his/her purpose.

This data supplied complies with CHIP2.

Reference: ChemData010 15.03.04 (2)