

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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MIRACOL.

Revision 0

Revision date 2015-04-08

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

1.1. Product identifier

Product name	MIRACOL.
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC35] Washing and cleaning products (including solvent based products);
Description	Alkaline & Chlorine based Auto Dishwash.

1.3. Details of the supplier of the safety data sheet

Company	Spectrum Industrial Limited
Address	19/24 Bedesway Bede Industrial Estate Jarrow Tyne & Wear NE32 3EG
Web	www.spectrumindustrial.co.uk
Telephone	0191 4301111
Fax	0191 4837422
Email	sales@spectrum-ind.co.uk
Email address of the competent person	sales@spectrum-ind.co.uk

1.4. Emergency telephone number


Emergency telephone number	0191 4301111 9.00 am - 5.00 pm Mon - Fri
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 67/548/EEC	C; R35 R31 Symbols: C: Corrosive.
Main hazards	Contact with acids liberates toxic gas. Causes severe burns.
2.1.2. Classification - EC 1272/2008	EUH031; Met. Corr. 1: H290; Skin Corr. 1A: H314;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	EUH031 - Contact with acids liberates toxic gas. Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

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2.2. Label elements

Precautionary Statement: Prevention	P102 - Keep out of reach of children. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.

Further information

Supplemental label information	EUH031 - Contact with acids liberates toxic gas.
Contains:	Sodium Hydroxide. Sodium hypochlorite,.

SECTION 3: Composition/information on ingredients

3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Sodium Hypochlorite Solution, ... %Cl Active		7681-52-9	231-668-3	01-2119488154-34	2 - 4%	C; R34 N; R50 R31
Sodium Hydroxide. (Sodium hydroxide)		1310-73-2	215-185-5	01-2119457892-27	10 - 20%	C; R35

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Sodium Hypochlorite Solution, ... %Cl Active		7681-52-9	231-668-3	01-2119488154-34	2 - 4%	EUH031; Skin Corr. 1B: H314; Eye Dam. 1: H318; Aquatic Acute 1: H400;
Sodium Hydroxide. (Sodium hydroxide)		1310-73-2	215-185-5	01-2119457892-27	10 - 20%	Met. Corr. 1: H290; Skin Corr. 1A: H314;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

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

Inhalation	Irritating to respiratory system.
Eye contact	Causes burns.
Skin contact	Causes severe burns.
Ingestion	Causes burns.

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

Inhalation	Seek medical attention.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention.

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

Ingestion	Seek medical attention.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Corrosive. Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	For personal protection see section 8. Collect and dispose of spillage as indicated in section 13.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
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7.3. Specific end use(s)

	See section 1.2.
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Suitable packaging

	Plastic containers.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

	WEL = Work place exposure limit.
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8.1.1. Exposure Limit Values

Sodium Hydroxide. (Sodium hydroxide)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2

8.2. Exposure controls**8.2.1. Appropriate engineering controls**

	Ensure adequate ventilation of the working area.
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8.2. Exposure controls

8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Not normally required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Yellow
Odour	Chlorine
pH	12.8 - 13.8
Flash point	Not applicable.
Relative density	1.2 - 1.25
Solubility	Soluble in water

SECTION 10: Stability and reactivity

10.1. Reactivity

	Contact with acids liberates toxic gas.
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10.2. Chemical stability

	Keep in a cool, dry, well ventilated area.
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10.3. Possibility of hazardous reactions

	Acids. Amines.
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10.4. Conditions to avoid

	Heat. Direct sunlight.
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10.5. Incompatible materials

	Acids. Aluminium. Tin. Zinc and their alloys.
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10.6. Hazardous decomposition products

	Contact with acids liberates toxic gas.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.
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11.1.4. Toxicological Information

Sodium Hypochlorite Solution,... %Cl Active	Dermal Rat LD50: 2000 mg/kg	Oral Rat LD50: 1100 mg/kg
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SECTION 12: Ecological information

12.1. Toxicity

Sodium Hypochlorite Solution,... %Cl Active	Daphnia EC50/48h: 0.100 mg/l	Fish LC50/96h: 0.100 mg/l
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12.2. Persistence and degradability

	Biodegradable.
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12.3. Bioaccumulative potential

	The product does not contain any substances expected to be bioaccumulating.
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12.4. Mobility in soil

	Miscible in water.
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12.5. Results of PBT and vPvB assessment

	This product does not contain any substances classified as PBT or vPvB.
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Further information

Ecotoxicity	Potentially hazardous due to chlorine and alkalinity of the product.
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SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.
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Disposal of packaging

	Containers must be recycled in compliance with national legislation and environmental regulations.
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SECTION 14: Transport information

Hazard pictograms



14.1. UN number

	UN1719
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14.2. UN proper shipping name

	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hydroxide & Sodium Hypochlorite)
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14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group	II
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14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	Not relevant.
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ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B
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IATA

Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction (Passenger)	851
Maximum quantity	1 L

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

	Safety Data Sheet prepared in accordance with REACH commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification under both CHIP - Directive 67/548/EEC classification, packaging & labelling of dangerous substances & GHS/CLP - Regulations (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.
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SECTION 16: Other information**Other information**

	The Risk Phrases/Hazard statements listed below in this section No 16 relate to the Raw Materials (ingredients) in the Product (as listen in section 3) and NOT the product intself. For the Risk Phrases/Hazard Statements relating to this Product see Section 2.
Text of risk phrases in Section 3	R31 - Contact with acids liberates toxic gas. R34 - Causes burns. R35 - Causes severe burns. R50 - Very toxic to aquatic organisms.
Text of Hazard Statements in Section 3	EUH031 - Contact with acids liberates toxic gas. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life. Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Further information

	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.
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