

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Revision 0

Revision date 2015-04-14

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

1.1. Product identifier

Product name MERLIN.

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 Heavy Duty, Alkaline Hard Surface Cleaner.

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 67/548/EEC
Xi; R36/38
Symbols: Xi: Irritant.

Main hazards Irritating to eyes and skin.

2.1.2. Classification - EC 1272/2008
Skin Irrit. 2: H315; Eye Irrit. 2: H319;

2.2. Label elements

Hazard pictograms



Signal Word

Warning

Hazard Statement

Skin Irrit. 2: H315 - Causes skin irritation.
Eye Irrit. 2: H319 - Causes serious eye irritation.

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2.2. Label elements

Precautionary Statement: Prevention	P102 - Keep out of reach of children. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

Further information

Contains:	Sodium Metasilicate.
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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 Metasilicate		10213-79-3	229-912-9	01-2119449811-37	1 - 10%	C; R34 Xi; R37
Ethylene glycol monobutyl ether (2-Butoxyethanol)	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	1 - 10%	Xn; R20/21/22 Xi; R36/38
C9-11 Alcohol Ethoxylate		68439-46-3			1 - 10%	Xn; R22 Xi; R41

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Sodium Metasilicate		10213-79-3	229-912-9	01-2119449811-37	1 - 10%	Skin Corr. 1B: H314; STOT SE 3: H335;
Ethylene glycol monobutyl ether (2-Butoxyethanol)	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	1 - 10%	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315;
C9-11 Alcohol Ethoxylate		68439-46-3			1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	May Cause Burns.
Skin contact	May Cause Burns.
Ingestion	Ingestion causes burns to the respiratory tract.

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.
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

	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. 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. Sweep up. 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. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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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. Store in correctly labelled containers.
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Suitable packaging

	Plastic containers.
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7.3. Specific end use(s)

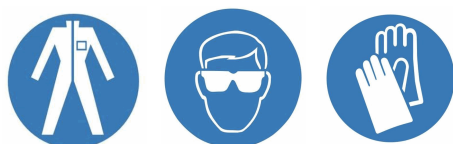
	See section 1.2.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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

Ethylene glycol monobutyl ether (2-Butoxyethanol)	WEL 8-hr limit ppm: 25	WEL 8-hr limit mg/m3: -
	WEL 15 min limit ppm: 50	WEL 15 min limit mg/m3: -
Sodium Metasilicate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 6.22
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:

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

In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Green
Odour	Characteristic
pH	12.8 - 13.8
Melting point	No data available
Freezing Point	No data available
Flash point	Not applicable.
Evaporation rate	No data available
Relative density	1.04 - 1.06 (Water = 1 @ 20 °C)
Autoignition temperature	Not applicable.
Explosive	Not applicable.
Oxidising	Not applicable.
Solubility	Soluble in water

SECTION 10: Stability and reactivity

10.1. Reactivity

Avoid contact with: Acids.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No Significant Hazard.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1.4. Toxicological Information

C9-11 Alcohol Ethoxylate	Dermal Rat LD50: 2000 mg/kg	
Ethylene glycol monobutyl ether	Inhalation Rat LC50/4 h: 2.21-2.39 mg/l	Oral Rat LD50: 1300 mg/kg
Sodium Metasilicate	Oral Rat LD50: 1280 mg/kg	Oral Mouse LD50: 770 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

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12.1. Toxicity

C9-11 Alcohol Ethoxylate	Daphnia EC50/48h: 5.3 mg/l	
Ethylene glycol monobutyl ether	Daphnia EC50/48h: 1150.0000 mg/l Algae EC50/72h: 1840 mg/l	Fish LC50/96h: 1474.0000 mg/l
Sodium Metasilicate	Daphnia EC50/48h: 1700.0000 mg/l	

12.2. Persistence and degradability

	The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.
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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	Not regarded as dangerous for the environment.
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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

	Dispose of in compliance with all. local and national regulations.
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SECTION 14: Transport information

Hazard pictograms

	
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14.1. UN number

	UN3266
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14.2. UN proper shipping name

	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)
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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	III
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14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

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ADR/RID	
Hazard ID	80
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-B
IATA	
Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L
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.
15.2. Chemical safety assessment	
	No chemical safety assesment has been carried out as not applicable as this product is a mixture.
SECTION 16: Other information	
Other information	
Text of risk phrases in Section 3	<p>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.</p> <p>R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed. R22 - Harmful if swallowed. R34 - Causes burns. R36/38 - Irritating to eyes and skin. R37 - Irritating to respiratory system. R41 - Risk of serious damage to eyes.</p>
Text of Hazard Statements in Section 3	<p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation. Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. Eye Dam. 1: H318 - Causes serious eye damage.</p>
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.