

## SAFETY DATA SHEET

### SPOT & STAIN REMOVER

According to Regulation (EC) No. 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

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

##### 1.1. Product identifier

**Product name** SPOT & STAIN REMOVER

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

**Identified uses** Detergent. For professional use only.

**Uses advised against** Not for direct contact with Food or Beverage stuffs. Not for oral consumption.

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** MERLIN CHEMICALS  
UNIT 5, PASSFIELD MILL INDUSTRIAL PARK, LIPHOOK, HAMPSHIRE, GU30 7RR  
+44 (0) 1428 751122  
+44 (0) 1428 751133  
technical@merlinchemicals .co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** Out of Office Hours Emergency Information:-  
For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call:- +44(0) 7050 265597.  
Note:- This number will not accept order queries or calls dealing with equipment breakdowns.  
UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318

**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Pictogram



**Signal word** Danger

**Hazard statements** H315 Causes skin irritation.  
H318 Causes serious eye damage.

**Precautionary statements** P280 Wear protective gloves, eye and face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P313 Get medical advice/attention.  
P404 Store in a closed container.



## SPOT & STAIN REMOVER

**Composition comments** To the best of our knowledge, all of the substances used in this product are being supported for the relevant application in REACH.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	Move affected person to fresh air. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes and get medical attention.

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

<b>General information</b>	Neat product will cause skin irritation and potentially permanent eye damage. Dilute product will result in less severe damage to the eyes, but contact should be treated as per neat chemical.
<b>Inhalation</b>	Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose.
<b>Ingestion</b>	Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, irritation of the mouth, throat and GI tract may occur. If dilute chemical is ingested some soreness of the mouth, throat and GI tract may occur.
<b>Skin contact</b>	Causes skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	May cause chemical eye burns. May result in permanent eye damage.

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

<b>Notes for the doctor</b>	Rinse well with water to neutral pH.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.
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#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	The product is non-combustible. If heated, irritating vapours may be formed.
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#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Protective clothing and respiratory protection should be worn when tackling fires involving this product. Control run-off water by containing and keeping it out of sewers and watercourses.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

## SPOT & STAIN REMOVER

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation of the working area.

### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid or minimise the creation of any environmental contamination.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable labelled containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** See sections 8, 12 & 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Ensure adequate ventilation of the working area.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store below 40°C.

### 7.3. Specific end use(s)

**Specific end use(s)** Detergent, refer to Product Information Sheet for full details.

**Usage description** This product is suitable for use in food preparation areas, but is not designed for direct food contact.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **2-BUTOXYETHANOL**

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk)

Short-term exposure limit (15-minute): WEL 50 ppm(Sk)

#### **SODIUM HYDROXIDE**

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

## SPOT & STAIN REMOVER

### Ingredient comments

Where an exposure level is quoted, a risk assessment should consider if there is a need to monitor the atmosphere of the working environment. Results should be compared against the WEL and/or DNEL information provided. The Long Term WEL refers to total exposure of a worker to a specific substance averaged out over an 8 hour period.

The Short Term WEL refers to a single exposure of a worker to a specific substance over a 15 minute period.

If the Short Term WEL is exceeded and no Long Term Limit is set, further exposure during the working shift is not permitted. Further controls should be implemented to ensure that future exposure to the substance is reduced below the levels set before the activity is repeated/continued. Where no Short Term WEL exists, guidance from the HSE is to use a value of three times the Long Term WEL.

The WEL limits are laid down in the EH40 list as supplied by the HSE. This is taken from the Chemical Agents Directive (98/24/EC). Where a worker is exposed to levels approaching a limit, further exposure control measures should be considered to reduce exposure to the substance. DNEL and/or PNEC information is supplied by manufacturers of substances in accordance with REACH legislation (Regulation (EC) No 1907/2006), and is used to provide suitable risk reduction measures to limit exposure of the user of the substance to a non hazardous level. If the measured level of exposure by a route divided by the DNEL for the route is greater than 1, then further exposure controls should be implemented as described in section 8.2. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

### 2-BUTOXYETHANOL (CAS: 111-76-2)

<b>DNEL</b>	Professional - Dermal; Acute systemic effects: 89 mg/kg bw/day Professional - Dermal; Long term systemic effects: 75 mg/kg bw/day Professional - Inhalation; Acute systemic effects: 246 mg/m <sup>3</sup> Professional - Inhalation; Long term systemic effects: 98 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 8.8 mg/l - Sediment (Freshwater); 34.6 mg/l - Sediment (Marinewater); 3.46 mg/kg - Marine water; 0.88 mg/l - STP; 463 mg/l - Soil; 2.8 mg/kg

### SODIUM METASILICATE PENTAHYDRATE (CAS: 10213-79-3)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 6.22 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 1.49 mg/kg bw/day Consumer - Oral; Long term systemic effects: 0.74 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 1.55 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 0.74 mg/kg bw/day
<b>PNEC</b>	- Fresh water; 7.5 mg/l - Marine water; 1 mg/l - Intermittent release; 7.5 mg/l

### ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT (CAS: 64-02-8)

<b>DNEL</b>	Professional - Inhalation; Long term systemic effects: 2.5 mg/m <sup>3</sup> Professional - Inhalation; Long term local effects: 2.5 mg/m <sup>3</sup> Professional - Inhalation; Short term systemic effects: 2.5 mg/m <sup>3</sup> Professional - Inhalation; Short term local effects: 2.5 mg/m <sup>3</sup>
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## SPOT & STAIN REMOVER

<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 2.2 mg/l</li> <li>- Marine water; 0.22 mg/l</li> <li>- Intermittent release; 1.2 mg/l</li> <li>- Soil; 0.72 mg/kg</li> <li>- STP; 43 mg/kg</li> </ul>
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### SODIUM HYDROXIDE (CAS: 1310-73-2)

<b>DNEL</b>	<p>Industry - Inhalation; Long term local effects: 1.0 mg/m<sup>3</sup>                  DNEL data for Professional users is not yet available, but it is assumed to be the same as for Industrial users.                  Industry - Dermal; Short term local effects: 2%</p>
<b>PNEC</b>	No information is available for PNEC data for Sodium Hydroxide

### 8.2. Exposure controls

#### Protective equipment



#### Personal protection

The PPE indicated above is not a COSHH assessment. It represents PPE that should be considered during the manufacture, distribution, use and final disposal stages of this product's life cycle. It is the responsibility of employers to conduct a COSHH/risk assessment to determine appropriate PPE levels. The information given below should be used to support this assessment. Where possible replace manual processes with automated or closed processes to minimise contact with the product.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles. Refer to EN Standard 166 to select appropriate level of protection.

#### Hand protection

Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). Refer to Standard EN 374.

#### Other skin and body protection

Provide eyewash station. Wear suitable protective clothing as protection against splashing or contamination. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.

#### Hygiene measures

Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Wash contaminated clothing before reuse. Provide eyewash station and safety shower.

#### Respiratory protection

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit.

#### Environmental exposure controls

Do not allow the substance to contaminate surface water/ground water. See points 6, 12 & 13.

#### General Health and Safety Measures.

The above requirements refer to the neat chemical. In-use solutions may have a lower classification, however, a full risk assessment should be carried out before handling any chemical(s). Risk assessments should refer to COSHH and any other relevant legislation or industry specific guidelines governing the use of chemicals.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless to pale yellow.

## SPOT & STAIN REMOVER

<b>Odour</b>	Detergent
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	pH (concentrated solution):
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not applicable. Not technically practical for mixtures.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not applicable.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not applicable. Contains no Oxidising Components.
<b>9.2. Other information</b>	
<b>Refractive index</b>	Not applicable.
<b>Particle size</b>	Not applicable.
<b>Molecular weight</b>	Not applicable.
<b>Volatility</b>	Not applicable.
<b>Saturation concentration</b>	Not applicable.
<b>Critical temperature</b>	Not applicable.
<b>Volatile organic compound</b>	Not applicable.
<b>Explosive Properties</b>	Not Classified as Explosive
<b>Storage Temperature Range</b>	0 - 40°C

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

## SPOT & STAIN REMOVER

**Reactivity** Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. - See note 10.6.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Refer to section 10.1. Do not mix with Hypochlorite based chemicals, this could result in a dangerous heating of the solution.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Bleach.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. - See section 10.5.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 12,506.01

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 62,857.14

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 257,142.86

**ATE inhalation (vapours mg/l)** 628.57

**ATE inhalation (dusts/mists mg/l)** 85.71

**General information** See section 4.2.

**Inhalation** Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose. - See section 4.2.

**Ingestion** May cause irritation to mouth, throat and GI tract.

**Skin contact** Irritating to skin.

**Eye contact** Risk of serious damage to eyes. May cause permanent eye injury.

## SECTION 12: Ecological Information

**Ecotoxicity** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.1. Toxicity

**Acute toxicity - fish** Normal use of the diluted product is not expected to pose any risk.

### 12.2. Persistence and degradability



## SPOT & STAIN REMOVER

**Persistence and degradability** The surfactant(s) used in this preparation complies (comply) with the biodegradability criteria as laid down in the European Detergents Regulation No 648/2004 as amended.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not expected to bioaccumulate.

**Partition coefficient** Not applicable. Not technically practical for mixtures.

### 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** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** When handling waste, the safety precautions applying to handling of the product should be considered. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Do not mix with other chemicals.

**Disposal methods** Small volumes of use solution can be disposed of to sewers. Dispose of waste product or used containers in accordance with local regulations

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SPOT & STAIN REMOVER

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

**EU legislation** European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.  
This replaces Directive 67/548/EEC - Classification, Packaging and Labelling of Dangerous Substances and Regulation (EC) No. 453/2010 relating to the Classification, Packaging and Labelling of Dangerous Preparations. Also considered is the REACH Regulation (EC) No.1907/2006.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

**Abbreviations and acronyms used in the safety data sheet** (EC) No. 1272/2008 : EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures.  
NPIS - National Poisons Information Service.  
vPvB - Very Persistent, Very bioaccumulative.  
PBT - Persistent, Bioaccumulative & Toxic.  
REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC 1907/2006).  
DNEL - Derived No Effect Limit.  
PNEC - Predicted No Effect Concentration.  
COSHH - Control of Substances Hazardous to Health.  
Industry - Refers in section 8 to application of the substance in an industrial process.  
Professional - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.

**General information** This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customer's responsibility to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment. The Risk and Hazard statements listed below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.

**Revision comments** Review in line with CLP Regulation.

**Revision date** 01/05/2015

**SDS number** 21697

**Hazard statements in full** H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

## SPOT & STAIN REMOVER

### **REACH extended MSDS comments**

REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevant recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.