



# admiral

## SAFETY DATA SHEET ADMIRAL PURPLE BEERLINE CLEANER

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	ADMIRAL PURPLE BEERLINE CLEANER
Product number	CD0006
Internal identification	MER3169
Container size	5L

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

Identified uses	Cleaning of beerlines. For professional use only.
Uses advised against	Not for use by hand. Not for oral consumption.

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

Supplier	Admiral Group of Companies Unit 2, Bardon 22 Industrial Estate, Coalville, Leicestershire, LE67 1TE Tel: +44 (0) 1530 278920 Fax: +44 (0) 1530 278930
Manufacturer	Holchem Group Ltd. Gateway House, Pilsworth Road, Pilsworth Industrial Estate, Bury Lancashire (UK). 0161 7965772 info@holchem.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 please call:- 0870 190 6777. NOTE: This number will not provide technical details of the product, or deal with other general enquiries regarding application and use of the product. This product is registered with the NPIS. UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599 (This is a Lo Call Number)
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### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards	Met. Corr. 1 - H290
Health hazards	Skin Corr. 1A - H314 Eye Dam. 1 - H318
Environmental hazards	Aquatic Chronic 2 - H411

#### 2.2. Label elements

## ADMIRAL PURPLE BEERLINE CLEANER

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.  
 H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P234 Keep only in original packaging.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 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.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Supplemental label information

EUH031 Contact with acids liberates toxic gas.

### Contains

SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION

### Detergent labelling

< 5% chlorine-based bleaching agents, < 5% phosphates

### Supplementary precautionary statements

P405 Store locked up.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Note:- H290 May be Corrosive to Metals Classification relates to Soft Metals such as Aluminium and Copper, when used correctly this product is not expected to be corrosive to 304 and 316 Stainless Steel.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>SODIUM HYDROXIDE</b>	<b>1-5%</b>
CAS number: 1310-73-2	EC number: 215-185-5
	REACH registration number: 01-2119457892-27
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Met. Corr. 1 - H290	C;R35
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	

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<b>SODIUM HYPOCHLORITE SOLUTION</b>			<b>1-5%</b>
CAS number: 7681-52-9	EC number: 231-668-3	REACH registration number: 01-2119488154-34	
M factor (Acute) = 10			
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Met. Corr. 1 - H290		C;R34 R31 N;R50	
Skin Corr. 1B - H314			
Eye Dam. 1 - H318			
Aquatic Acute 1 - H400			
Aquatic Chronic 2 - H411			
<b>POTASSIUM PERMANGANATE</b>			<b>&lt;1%</b>
CAS number: 7722-64-7	EC number: 231-760-3	REACH registration number: 01-2119480139-34-XXXX	
M factor (Acute) = 10		M factor (Chronic) = 10	
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Ox. Sol. 2 - H272		O;R8 Xn;R22 N;R50/53	
Acute Tox. 4 - H302			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**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>	For immediate First Aid advice in the UK, dial 111. When it is safe to do so, remove victim immediately from source of exposure. However, consideration should be given as to whether moving the victim will cause further injury.
<b>Inhalation</b>	Remove affected person from source of contamination. Provide rest, warmth and fresh air. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing that is not stuck to the skin. Flush area with clean water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
<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.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	Neat product may cause chemical burns and permanent eye damage. Dilute product may cause irritation to the skin and eyes.
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<b>Inhalation</b>	Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose. If mixed with acid products Chlorine Gas may be evolved, this can result in irritation to eyes and difficulty in breathing. If inhaled this may result in irritation to the mouth nose and respiratory tract.
<b>Ingestion</b>	Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical burning of mouth, throat and GI tract will occur. If dilute chemical is ingested, soreness of mouth, throat and GI tract may occur together with redness and blistering.
<b>Skin contact</b>	Causes severe burns.
<b>Eye contact</b>	May result in permanent eye damage.

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

<b>Notes for the doctor</b>	Contains Sodium Hydroxide, Sodium Hypochlorite, Potassium Permanganate and Scale control agents in aqueous solution. Rinse well with water to neutral pH. If mixed with acidic material will produce Chlorine Gas, check for respiratory disorders.
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## SECTION 5: Firefighting measures

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	This product will not support combustion and is not flammable. Use an extinguishing media suitable for surrounding materials.
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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	This product is non combustible, on heating corrosive vapours may be formed. Contact with acids will generate toxic chlorine gas.
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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**

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.
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### **6.4. Reference to other sections**

<b>Reference to other sections</b>	See sections 8, 12 & 13
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## SECTION 7: Handling and storage

### **7.1. Precautions for safe handling**

<b>Usage precautions</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Refer to section 8.
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### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Keep away from combustible material. Store between 0 and 30 Degrees C. Store away from the following materials: Acids.

### 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 cleaning beerlines. However, after cleaning the solution must be rinsed away before beer is pumped and consumed.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **SODIUM HYDROXIDE**

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

WEL = Workplace Exposure Limit

#### **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.

#### SODIUM HYDROXIDE (CAS: 1310-73-2)

<b>DNEL</b>	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%
<b>PNEC</b>	No information is available for PNEC data for Sodium Hydroxide

#### SODIUM HYPOCHLORITE SOLUTION (CAS: 7681-52-9)

## ADMIRAL PURPLE BEERLINE CLEANER

<b>DNEL</b>	<p>Industry - Dermal; Long term local effects: 0.5% wt/wt</p> <p>Industry - Inhalation; Long term systemic effects: 1.55 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term systemic effects: 3.1 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Long term local effects: 1.55 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term local effects: 3.1 mg/m<sup>3</sup></p>
<b>PNEC</b>	<p>- Sediment (Freshwater); 0.21 ug/l</p> <p>- Fresh water; 30 ug/l</p> <p>- Sediment; 0.042 ug/l</p> <p>- Intermittent release; 0.26 ug/l</p>

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

#### 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

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Refer to EN Standard 166 to select appropriate level of protection.

#### Hand protection

For prolonged skin contact use of gloves is recommended for chemicals. Refer to Standard EN 374 and EN 16523

#### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.

#### Hygiene measures

Not applicable.

#### Respiratory protection

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit. In the case of dust or aerosol formation (eg spraying), or vapour from hot vessels, use respiratory protection with an approved filter (P2).

#### Environmental exposure controls

Do not allow the substance to contaminate surface water/ground water. See points 6, 12 & 13. Discharge of solutions into effluent systems (including municipal drains) or to surface water are expected to cause significant pH changes. Discharge of solutions should be carried out such that pH changes are minimised. Where necessary pH buffering measures should be adopted. Users of this product should consult local drainage and permitting authorities to ensure that any restrictions or discharge consents are adhered to.

#### General Health and Safety Measures.

The above requirements refer to the neat product. Normal use solutions of this product are unclassified. However, a full COSHH assessment should still be conducted. We recommend use of gloves and eye protection. 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

## ADMIRAL PURPLE BEERLINE CLEANER

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

<b>Appearance</b>	Coloured liquid.
<b>Colour</b>	Purple.
<b>Odour</b>	Bleach
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	pH (diluted solution): 11.5 - 12.5 @ 1%
<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>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	1.07 @ 20 Degrees C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not applicable.
<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>	Classification in section 2 based on experience of product.

### 9.2. Other information

<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

## ADMIRAL PURPLE BEERLINE CLEANER

**Storage Temperature Range** 0 to +30 Degrees C

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** Will produce toxic Chlorine gas in contact with acids.

#### 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 acids, this will generate heat and give off corrosive vapours.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. In contact with acids evolves Toxic Chlorine Gas.

#### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Strong oxidising agents. Flammable/combustible materials. Reaction with Aluminium, Zinc, Tin, Copper or their alloys produces flammable Hydrogen Gas. - Note: reaction relates to neat product.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** The normal breakdown of this product will produce Chlorates, Oxygen and Sodium Chloride (salt), under acid conditions Chlorine can be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Respiratory sensitisation

**Respiratory sensitisation** No evidence of respiratory sensitisation for any component of this formulation.

##### Skin sensitisation

**Skin sensitisation** No evidence of skin sensitisation for any component of this formulation.

##### Carcinogenicity

**Carcinogenicity** The components of this formulation are corrosive to skin and the respiratory tract, but will not be systemically available in the body under normal conditions of handling. As a consequence it is not expected to cause cancer.

##### Reproductive toxicity

**Reproductive toxicity - fertility** The components of this formulation are corrosive to the skin and respiratory tract, but will not be systemically available in the body under normal conditions of use and handling. As a consequence it is not expected to be toxic to the reproductive system or the developing foetus.

##### General information

Toxic effect linked with corrosive properties. 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. Mixing with acid will evolve toxic Chlorine Gas.

##### Ingestion

Causes severe burns. May cause chemical burns in mouth, oesophagus and stomach.

##### Skin contact

Causes severe burns.

##### Eye contact

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



## ADMIRAL PURPLE BEERLINE CLEANER

### SECTION 12: Ecological information

**Ecotoxicity** This product is classified as very toxic to aquatic life, this refers to the neat product. Normal use is not expected to pose a risk.

#### 12.1. Toxicity

**Toxicity** Normal use is not expected to pose an ecological risk.

#### Acute aquatic toxicity

**Acute toxicity - fish** Normal use of the diluted product is not expected to pose any risk.  
See note 12.0

#### 12.2. Persistence and degradability

**Persistence and degradability** This product consists solely of inorganic materials for which biodegradation assessment is not applicable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not expected to bioaccumulate.

**Partition coefficient** Not applicable.

#### 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** Do not mix with other chemicals. Mixing with acids will liberate toxic Chlorine Gas

### SECTION 14: Transport information

#### 14.1. UN number

**UN No. (ADR/RID)** 1719

**UN No. (IMDG)** 1719

**UN No. (ICAO)** 1719

**UN No. (ADN)** 1719

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION)

**Proper shipping name (IMDG)** CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION)

**Proper shipping name (ICAO)** CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION)

**Proper shipping name (ADN)** CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION)

## ADMIRAL PURPLE BEERLINE CLEANER

### 14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	8
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2R
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

## 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.
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### 15.2. Chemical safety assessment

#### Pcs Information

## ADMIRAL PURPLE BEERLINE CLEANER

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>(EC) No. 1272/2008 : EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures.</p> <p>COSHH - Control of Substances Hazardous to Health.</p> <p>DNEL - Derived No Effect Limit.</p> <p>Industry - Refers in section 8 to application of the substance in an industrial process.</p> <p>NPIS - National Poisons Information Service.</p> <p>PBT - Persistent, Bioaccumulative &amp; Toxic.</p> <p>Professional - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.</p> <p>REACH - Registration, Evaluation, Authorisation &amp; restriction of CHemicals (Regulation EC 1907/2006).</p> <p>vPvB - Very Persistent, Very bioaccumulative.</p>
<b>General information</b>	<p>Only trained personnel should use this material. 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.</p>
<b>Revision comments</b>	Change to supplier address
<b>Revision date</b>	31/01/2019
<b>SDS number</b>	25897
<b>Risk phrases in full</b>	<p>R22 Harmful if swallowed.</p> <p>R31 Contact with acids liberates toxic gas.</p> <p>R34 Causes burns.</p> <p>R35 Causes severe burns.</p> <p>R37 Irritating to respiratory system.</p> <p>R50 Very toxic to aquatic organisms.</p> <p>R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R8 Contact with combustible material may cause fire.</p>
<b>Hazard statements in full</b>	<p>H272 May intensify fire; oxidiser.</p> <p>H290 May be corrosive to metals.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
<b>REACH extended MSDS comments</b>	<p>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.</p> <p>Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.</p>

**END OF SAFETY DATA SHEET**

## ADMIRAL PURPLE BEERLINE CLEANER

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.