

**SAFETY DATA SHEET (SDS)**

According to EC Directive 1907/2006 as amended by Regulation (EU) No 453/2010 &amp; 2015/830

**1. IDENTIFICATION OF SUBSTANCE & COMPANY IDENTIFICATION:**

- 1.1 Product **DEGREASER HD**  
 Product Code SYC-DHD-5L
- 1.2 Use An Economical Heavy Duty Low Foam Alkaline Detergent Cleaner for spray wash cleaning of medical instruments and utensils.
- 1.3 Company: Sychem Ltd  
 Address: Mayflower Close,  
 Chandler's Ford  
 Eastleigh  
 SOUTHAMPTON, SO53 4AR  
 UNITED KINGDOM  
 Telephone: 0845 644 6824  
 E-mail: sales@sychem.co.uk  
 Web site: www.sychem.co.uk

**1.5 Emergency Information: TEL NUMBER +44 (0) 845 644 6824** (8.30am - 5.00pm Mon-Thurs,  
 8.30am – 4.30pm Fri UK time)

**2. HAZARDS IDENTIFICATION.**
**2.1 Classification of the product (Substance or Mixture)**
**Classification:**

**Physical Hazards** None

**Health hazards** Skin Corr 1A; H314 Causes serious skin burns and eye damage

**Environmental hazards** None

**2.2 Label elements**
**Pictogram:**


**Signal Word** DANGER

**Hazard statements:** see 2.1

**GHS Precautionary Phrases**

- P264 Wash thoroughly after handling  
 P270: Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/eye protection.  
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+352: IF ON SKIN: Wash with plenty of water  
 P332+313: If skin irritation occurs: Get medical advice/attention.  
 P337+313: If eye irritation persists: Get medical attention.  
 P362: Take off contaminated clothing and wash before reuse

**2.3 Other hazards**

**PBT:** This product is not identified as a PBT/vPvB substance

**EMERGENCY OVERVIEW:**

Clear pale straw liquid with slight detergent odour. Non-flammable.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS.**

**General Description:** A blend of alkaline builders, chelating agents, surfactants and corrosion inhibitors.

**3.2 Mixtures - Hazardous Constituents**

Potassium silicate	EU Index no not available	Content 3 to 8 %w/w
CAS No 1312-76-1	EINEC No 215-199-1	REACH No 01-2119456888-17
Classification (GHS, EC Reg 1272/2008 ) Skin Corr 1B; H314 Eye Dam 1; H318 STOT SE 3; H335	Classification (67/548/EEC or 1999/45/EC) C, R34 R41	

Sodium hydroxide	EU Index no 011-002-00-6	Content 1 to 3 %w/w
CAS No 1310-73-2	EINEC No 215-185-5	REACH No 01-2119457892-27
Classification (GHS, EC Reg 1272/2008 ) Skin Corr 1B; H314	Classification (67/548/EEC or 1999/45/EC) C, R34	

Potassium hydroxide	EU Index no 019-002-00-8	Content 0.5 to 3 %w/w
CAS No 1310-58-3	EINEC No 215-181-3	REACH No 01-2119487136-33
Classification (GHS, EC Reg 1272/2008 ) Met Corr 1; H290 Acute Tox 4; H302 Skin Corr 1B; H314	Classification (67/548/EEC or 1999/45/EC) C, R35 Xn, R22	

For full text of H statements given in this Section refer Section 16

**3.3 Other Components**

Components not listed at section 3.2 are either non hazardous or present at levels below that requiring detailed disclosure. Common sense precautions should be observed

**Ingredients according to EC Directive 648/2004 Annex VII**

Less than 5% : phosphates, Amphoteric surfactant, carboxylates  
Corrosion inhibitor (benzotriazole),

**4. FIRST AID****4.1 Description of First Aid measures:**

- General:** If you feel unwell seek medical advice (show this information or the container label where possible).  
**Eye:** Irrigate with flowing water immediately and continuously for at least 15 minutes. Seek medical attention.  
**Skin:** Wash affected area with soap and water. Launder contaminated clothing, etc. before reuse. Seek medical advice if irritation persists  
**Ingestion:** Do not induce vomiting unless instructed to do so by medical personnel. Rinse mouth with water and give water to drink. Seek medical advice.

**Inhalation:** If mist or spray is inhaled, remove to fresh air. Rest and keep warm. Seek medical advice if discomfort occurs.

**4.2 Most Important Symptoms:**

**In contact with eyes:** Will cause redness, irritation and burning. Causes irreversible damage if not washed away immediately

**In contact with skin:** Causes irritation and burning followed by dryness and cracking.

**Inhaled:** Causes irritation and burning to mouth, nose, throat and respiratory tract.

**Ingested:** Causes irritation and burning to mouth and throat and may cause upset stomach..

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

**Note to physician:** Treat by observation and supportive measures as indicated by the patient's condition.

No specific antidote.

**5. FIRE FIGHTING MEASURES.****5.1 Extinguishing Media**

**Suitable Extinguishing Media:** Not applicable

**Media to be avoided:** Not applicable

**5.2 Special Hazards present in the mixture**

**Special Hazards** No unusual fire or explosive hazards. Non-flammable and will not support combustion

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to:

Oxides of carbon and nitrogen

**5.3 Advice for fire fighters**

**Protective actions during fire fighting:** Keep people away. In the event of an adjacent fire, cool containers with water spray.

**Special protective equipment:** Wear protective clothing and if necessary positive-pressure self-contained breathing apparatus (SCBA).

**6. ACCIDENTAL RELEASE MEASURES.****6.1 Personal protection, protective equipment and emergency procedures**

**Personal protection:** Avoid contact with skin and eyes. Protective clothing should be worn when dealing with any spillage.

**6.2 Environmental precautions:**

Do not allow large quantities to enter drains or the aquatic environment, or watercourses. If contamination of drainage systems or watercourses is unavoidable, immediately inform appropriate authorities.

**6.3 Methods and material containment and cleaning up**

**Clean up:** Contain and absorb with inert material such as earth, sand or non-organic absorbent granules.

Remove contaminated material to plastic containers and thence to a safe location for subsequent disposal.

Final traces or small spillages may be flushed away to foul sewer with plenty of water.

**6.4 Reference to other sections**

For personal protection see Section 8

For waste disposal see Section 13

**7. HANDLING AND STORAGE.****7.1 Precautions for safe handling**

**Usage precautions:** Use only in accordance with label instructions and wear appropriate protective clothing. Avoid contact with skin and protect eyes.

**Advice on general hygiene:** When using do not eat drink or smoke. Wash hands after use. Keep away from foodstuffs and drinks.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:** Do not store containers in open sunshine and keep away from heat. Store in a cool and well ventilated area between 5 °C and 25 °C. Keep container upright and closed when not in use.

Keep away from incompatible materials (see Section 10).

**8. EXPOSURE CONTROL/PERSONAL PROTECTION.****8.1 Workplace exposure guidelines:**

STATE	Component	LTE (8h TWA)	STE (15 Minute TWA)	Comment
UK HSE EH40	Sodium hydroxide	---	2 mg/m <sup>3</sup>	
UK HSE EH40	Potassium hydroxide	---	2 mg/m <sup>3</sup>	

**DNEL for workers** To be advised

**8.2 Exposure controls:****Protective equipment**

**Engineering controls:** Good general ventilation should be sufficient for most conditions.

**Eye/face protection:** Use chemical goggles or face shield if pressure washing or the risk of splashes is a concern. Eyewash stations should be provisioned.

**Skin protection:** Use suitable protective clothing, gloves/coveralls, for periods of prolonged contact. Butyl or nitrile rubber gloves are suitable. Use aprons or full body protection if splash or aerosol mist protection is required during prolonged exposure.

**Respiratory protection:** Not normally required.

**Hygiene measures:** When using, do not eat, drink, or smoke. Wash hands after use

**9. PHYSICAL AND CHEMICAL PROPERTIES.****9.1 Information on basic physical and chemical properties**

Property	Typical Value
APPEARANCE	Clear pale straw liquid
ODOUR	Slight detergent odour
pH	@ 20 °C Neat 13.5 1% solution 11.9
DENSITY	g/cm <sup>3</sup> @ 20 °C 1.08
SOLUBILITY	g/L @ 20 °C Completely miscible
PARTITION COEFFICIENT	Log Pow (Octanol/water) Not established
FLAMMABILITY	°C Open Cup, None Explosivity - lower limit % Not applicable - Upper limit % Not applicable Auto ignition Temp, °C Not established
THERMAL DECOMPOSITION	°C Not established

**9.2 Other Information**

No data

**10. STABILITY AND REACTIVITY****10.1 Reactivity** Stable**10.2 Chemical stability:** Stable under recommended storage and use conditions.**10.3 Possibility of hazardous reactions:** Will not occur under normal transport or storage conditions .**10.4 Conditions to avoid:** None.**10.5 Incompatible materials:** Avoid contact with acids.**10.6 Hazardous decomposition products:** Decomposition will normally only occur if product is involved in a fire.**11. TOXICOLOGICAL INFORMATION:****11.1 Toxicological effects:**Components:

Sodium hydroxide	LD50 (Rat, Oral)	325 mg/kg
	LC50 (Rabbit, Dermal)	1350 mg/kg
Potassium hydroxide	LD50 (Rat, Oral)	270 mg/kg

**Mixture:** No significant health hazard when properly used for the application it was designed for.

See Section 4 for exposure symptoms

Not sensitizing and is not mutagenic

Draze test, rabbit eye, 1% solution – severe

**Route of exposure:**

Dermal and eye contact

Ingestion or inhalation

**12. ECOLOGICAL INFORMATION.****12.1 Ecotoxicity**

Sodium hydroxide	EC50 (Daphnia magna, 48h)	40.4 mg/L
	LC50 (gambusia affinis, 96h)	120 mg/L
Potassium hydroxide	LC50 (Gambusia affinis, 96 h)	80 mg/L

**12.2 Mobility**

Miscible in water. Spills may penetrate soil and contaminate groundwater.

**12.3 Degradation and Persistence:**

Product is deemed to be biodegradable under OECD criteria and will pose little danger to the environment.

The surfactant(s) contained in this preparation comply with the biodegradability requirements as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them, at their direct request or at the request of a detergent manufacturer

**12.4 Bioaccumulative potential**

The product does not contain any substances that have potential for bioaccumulation.

**12.5 PBT & vPvB Assessment**

Does not contain any PBT or vPvB substances

**12.6 Other adverse effects**

High concentrations in receiving waters may be harmful to aquatic life and marine organisms due to the high alkalinity of the product.

**13. DISPOSAL CONSIDERATIONS.****General:** Do not discharge into surface drains, on the ground or into any body of water.**Disposal methods:** All disposal methods must be in compliance with local laws and regulations. (Regulations may vary in different locations.)

Diluted solutions may be safely disposed of by the foul sewer and will not pose any problems to waste water treatment facilities, however prior consent should be sought if significant quantities are to be disposed of.

For unused and uncontaminated product, the preferred disposal options include sending to a licensed, permitted recycler or reclaimer.

Packaging containers are recyclable. Rinse out well with water and send for recycling or dispose of in accordance with local authority requirements.

**14. TRANSPORT INFORMATION**

- 14.1 UN No: 1760  
 14.2 Proper Shipping Name: Corrosive liquid n.o.s. (contains sodium hydroxide and potassium silicate)  
 14.3 Hazard Classification: 8 (ADR/RID, IATA)  
 14.4 Packaging Group: III  
 14.5 Environmental Hazard No  
 Marine Pollutant: No

Label for Carriage:

**15. REGULATORY INFORMATION.****15.1 Safety, health and environment regulations/legislation specific for the substance/mixture**

This Safety Data Sheet is provided in compliance with the European REACH Directive (1907/2006/EC) and is in agreement with the GHS (Globally Harmonised System) for the classification and labelling of Dangerous Chemicals. This safety data sheet is distributed solely for the purpose of the Health and Safety at Work Act 1974; included under this heading is article 10 of Directive 88/379/EEC.

Components that make up this product are registered, or are not required to be listed, with: EUROPEAN INVENTORY OF NEW AND EXISTANT CHEMICAL SUBSTANCES (EINECS), and TOXIC SUBSTANCES CONTROL ACT (TSCA).  
 REACH – Regulation 1907/2006/EC, The raw materials used within this preparation have been pre-registered in accordance with the requirements of REACH

**Regulatory References:**

REGULATION (EC) 1272/2008 ON CLASSIFICATION, LABELLING AND PACKAGING  
 UN Globally Harmonised System for Classification & Labelling GHS ST-SG-AC10-30  
 UK Occupational Exposure Limits Guidance Note EH40  
 EU Detergents Directive 648/2004

**15.2 Chemical Safety Assessment**

Whilst Chemical Safety Assessments are available for the hazardous components, a Chemical Safety Assessment has been not been carried out for the preparation by the supplier

**16. OTHER INFORMATION.**

The data contained in this data sheet is based on Sychem's present knowledge of the health and safety properties of the product, and is believed to be accurate and given in good faith.

The physical and chemical properties are typical values only and do not constitute the specification of the product, which will be agreed separately.

The data given here only applies when product is used for proper application(s). The product is not sold as suitable for applications other than those identified at section 1, usage as such may cause risks not mentioned in this sheet.

It is for the customer to satisfy itself on the suitability of the product for its own particular purpose. Sychem gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded, except to the extent that law prevents such exclusion.

**Hazard Phrases used in Sections 3 and not stated at Section 2:**

H290 May be corrosive to metals  
 H302 Harmful if swallowed  
 H318 Causes serious eye damage  
 H335 May cause respiratory irritation

**Risk Phrases used in Section 3**

R22 Harmful if swallowed  
 R34 Causes burns  
 R35 Causes severe burns  
 R41 Risk of serious damage to eyes

The following definitions of terms and abbreviations may be used within this document:

NTP: National Toxicology Programme (US);  
 IARC: International Agency for Research on Cancer;  
 EINECS: European Inventory of New and Existent Chemical Substances;  
 OSHA: Occupational Safety & Health Administration (US);  
 OECD: Organisation for Economic Co-operation and Development;  
 ACGIH: American Conference of Governmental Industrial Hygienists;  
 CAS: Chemical Abstracts Number;

**OTHER INFORMATION. (Continued)**

STOT SE Specific Target Organ Toxicity – Single Exposure  
STOT RE Specific Target Organ Toxicity – Repeated Exposure  
PBT: Persistent, Bio-accumulative and Toxic  
vPvB: Very persistent and very bio-accumulative  
OES: Occupational Exposure Standard.  
TLV: Threshold Limit Value.  
TWA: Time Weighted Average.  
LTEL: Long Term Exposure Limit  
STEL: Short Term Exposure Limit.  
HSE: Health & Safety Executive (UK)  
LEV: Local Exhaust Ventilation

It is the responsibility of the user to ensure safe working conditions. The health hazards and general information contained within this material safety data sheet are given as a guide to the precautions required to maintain a safe working environment.