SYCHEM

# SAFETY DATA SHEET (SDS)

According to EC Directive 1907/2006 as amended by Regulation (EU) No 453/2010 & 2015/830 & 2020/878

## Section 1 IDENTIFICATION OF SUBSTANCE & COMPANY

1.1 Product Identity — SychemSHINE
Product Form — Aerosol preparation
Product Code — SYC-SS1-500ml, SYC-SS1-500ml-C
UFI Reference — TBA

1.2 Use — A Stainless Steel Cleaner and Brightener in an aerosol. Suitable for use on food processing and catering equipment and in engineering and architectural applications.

Application — For Industrial and Professional Use

1.3 Company: Sychem Ltd

Address: Unit 3, Mayflower Close
Chandler's Ford
Southampton, SO53 4AR
UNITED KINGDOM

Telephone: 0845 644 6824

E-mail: hello@sychem.co.uk

Web site: www.sychem.co.uk

1.4 Emergency Information: TEL NUMBER +44 (0) 845 644 6824
Availability Mon – Thurs 8:30am – 5pm, Fri 8:30am – 4.30pm (UK time)

## Section 2 HAZARD IDENTIFICATION

2.1 Classification of the product (Substance or Mixture ref Regulation (EC) 1272/2008)

Classification:

Physical Hazards — Aerosol; H222 Extremely Flammable aerosol, Aerosol; H229 Pressurized container; may burst if heated.

Health hazards — Skin Sens 1; H317 May cause an allergic skin reaction.

Environmental hazards — Aquat Chronic 3; H412 Harmful to aquatic life with long lasting effects

2.2 Label elements

Pictogram:

Signal Word — DANGER

Hazardous ingredients — (R)-p-mentha-1,8-diene, d-limonene

Hazard statements: see 2.1

Precautionary Phrases

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P280 Wear protective gloves.
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+P352 IF ON SKIN; Wash with plenty of soap, water

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P337+313 If eye irritation persists; Get medical advice/attention.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 ºC/122 ºF.

### 2.3 Other Hazards

PBT: This product is not identified as a PBT/vPvB substance.
The product does not exhibit any endocrine disruptive properties according to Regulation (EU) 2017/2100.
Propellants are extremely flammable and heavier than air. Pressurised containers may be subject to explosive rupture, protect from flying debris and ignition of flammable contents.

## Section 3 COMPOSITION & INFORMATION ON INGREDIENTS

General description: A blend containing emulsifiers, aliphatic distillates, preservative and water in an aerosol container propelled with butane/propane propellant

### 3.2 Mixtures - Hazardous Constituents

| | | |
|---|---|---|
| Hydrocarbon C10-12, iso-alkanes, <2% aromatic, | EC Index no<br>Sychem Ref RMP 2904 | Content 30 to 60 %w/w |
| CAS No 90622-57-4 | EINEC No 923-037-2 | REACH No 01-2119471991-29 |
| Classification (GHS, EC Reg 1272/2008)<br>Asp Tox 1; H304<br>Aquat Chronic 4; H413 | | |

| | | |
|---|---|---|
| Propane | EU Index no 601-003-00-5<br>Sychem Ref RMP 7201 | Content 5 to 15 %w/w |
| CAS No 74-98-6 | EINEC No 200-827-9 | REACH No |
| Classification (GHS, EC Reg 1272/2008 )<br>Flam gas 1; H220 | | |

| | | |
|---|---|---|
| Hydrocarbon C10-13, n-alkanes, iso-alkanes, cyclic, <2% aromatic | EC Index no 649-327-00-6<br>Sychem Ref RMP 2905 | Content 1 to 5 %w/w |
| CAS No 64742-48-9 | EINEC No 926-141-6 | REACH No 01-2119457273-39 |
| Classification (GHS, EC Reg 1272/2008)<br>Flam liq 3;H226<br>Asp Tox 1; H304 | | |

| | | |
|---|---|---|
| n-Butane (low in buta-1,3-diene) | EU Index no 601-004-00-0<br>Sychem Ref RMP 7200 | Content 1 to 5 %w/w |
| CAS No 106-97-8 | EINEC No 203-448-7 | REACH No |
| Classification (GHS, EC Reg 1272/2008 )<br>Flam gas 1; H220 | Note: Carc only applies if butane contains >0.1% buta-1,3-diene | |

| | | |
|---|---|---|
| (R)-p-mentha-1,8-diene (d-limonene) | EU Index no 601-029-00-7<br>Sychem Ref RMP 7200 | Content 1 to 5 %w/w |
| CAS No 5989-27-5 | EINEC No 227-813-5 | REACH No |
| Classification (GHS, EC Reg 1272/2008 )<br>Flam liq 3; H226<br>Asp Tox 1; H304<br>Skin Irrit 2; H315<br>Skin Sens 1; H317<br>Aquat Chronic 1; H410 (M factor = 1) | | |

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 during handling and use.

Ingredients according to EC Directive 648/2004 Annex VII on Detergents
Not applicable

## Section 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: Remove contact lenses, if fitted. Irrigate with flowing water immediately and continuously for at least 10 minutes. Consult medical personnel if irritation persists.

Skin: Remove contaminated clothing and wash affected area with soap and water or proprietary skin cleaner. Launder contaminated clothing before reuse.

Ingestion: If swallowed seek medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Rinse mouth with water, do not swallow.

Inhalation: Removeto fresh air, rest and keep warm. If breathing difficulties persist, seek medical attention

4.2 Most Important Symptoms:

Effects due to overexposure when:

Contact with eyes: Irritation, pain and redness.

In contact with skin: Irritation and redness. Can be absorbed through skin. Prolonged or repeated exposure will cause skin dryness and cracking leading to dermatitis.

Inhaled: Acute exposure will cause irritation of nose and throat and may cause headache, nausea and dizziness. Prolonged inhalation of high concentrations may damage respiratory system.

Ingested Accidental ingestion is unlikely due to the nature of the product and packaging.

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.

## Section 5 FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Water fog or fine spray. Carbon dioxide. Dry chemical. Foam. Alcohol resistant foams. (ATC type) are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function but much less effectively.

Media to be avoided: Not applicable

5.2 Special Hazards present in the mixture

Special Hazards Aerosol container – pressurised with flammable gas. Containers may be subject to explosive rupture, protect from flying debris.

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

5.3 Advice for firefighters

Protective actions during firefighting Keep people away. Isolate fire area and deny unnecessary entry. In the event of an adjacent fire, cool containers with water spray. Aerosol containers – danger of bursting and uncontrolled ejection on heating.

Special protective equipment: Wear protective clothing and self-contained breathing equipment.

## Section 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal protection, protective equipment and emergency procedures

Personal protection Avoid prolonged contact with the liquid. Protective clothing should be worn when dealing with any spillage.

Accidental release would not normally occur with aerosols, however if a can or cans were leaking ensure good ventilation and that all sources of ignition are removed.

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

## Section 7 HANDLING & STORAGE

7.1 Precautions for safe handling

Usage precautions: Use only in accordance with label instructions. Use only in well ventilated areas

Wear appropriate protective clothing for prolonged exposure.

Avoid spills and contact with skin or eyes. Any spillages should be prevented from entering drains or watercourses.

Do not use in areas where potential sources of ignition exist.

Containers, even those that have been emptied, can contain vapours. Do not pierce container or burn even after use. Do not spray on a naked flame or any incandescent material. Deliberately concentrating and inhaling contents of this container is dangerous and can be fatal.

Advice on general hygiene: When using do not eat drink or smoke. Wash hands after use.

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 0 °C and 35 °C. Keep container upright and closed when not in use.

Keep away from incompatible materials (see Section 10).

## Section 8 EXPOSURE CONTROL & PERSONAL PROTECTION

8.1 Workplace exposure guidelines

| STATE UK HSE | Component | LTE (8h TWA) | STE (15 Minute TWA) 750 | Comment |
|---|---|---|---|---|
| EH40 | Butane (Low in buta-1,3-diene) | 600 ppm (1450 mg/m3) | ppm (1810 mg/m3) | |
| Ireland | Propane | 1000 ppm (1800 mg/m3) | | |

| DNEL for workers | | | | | |
|---|---|---|---|---|---|
| Component | Exposure | Short term – local effects | Short term – systemic effects | Long term – local effects | Long term – systemic effects |
| No data | Inhalation | | | | |
| | Dermal | | | | |

| PNEC Data | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fresh water organisms | Freshwater sediment | Marine organisms | Marine sediment | STP | Hazard to Air | Terrestrial organisms | Hazard to predators |
| Component - Not established | | | | | | | |
| | | | | | | | |

8.2 Exposure controls:

Protective equipment

Engineering controls: Good general ventilation should be sufficient for most conditions. In case of insufficient ventilation, wear suitable respiratory equipment. L.E.V. should be provided to minimise mist or spray conditions. Personal protective equipment to be used as a last resort.

Eye/face protection: Use chemical goggles or face shield. Eyewash stations should be provided.

Skin protection: Use neoprene or nitrile gloves. If splashing or contact with the spray cleaner is a potential hazard, wear boots and an apron or a waterproof suit.

Respiratory protection: Not normally a problem. Wear approved respirator or breathing line if exposure to spray, mist or fume is likely

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

## Section 9 PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| Property | | Typical Value |
|---|---|---|
| APPEARANCE ODOUR | Physical state & colour | Colourless liquid in an aerosol |
| MELTING/FREEZING POINT | | odourless Not established Not |
| BOILING POINT/RANGE | °C °C mm2/s @ | established Not established |
| KINEMATIC VISCOSITY pH | 20 °C g/cm3 @ | Not established 0.75 Not |
| DENSITY VAPOUR DENSITY | 20 °C Air=1 | established Not established |
| VAPOUR PRESSURE PARTITION | | Not established < -40 |
| COEFFICIENT FLAMMABILITY | | (propellant) |
| | | Not established |
| | | Not established |
| | Log Pow (octanol/water) @ 25 °C | Not established |
| | °C Closed Cup,<br>Explosivity - lower limit %<br>- Upper limit %<br>Auto ignition Temp, °C | Not established |
| THERMAL DECOMPOSITION | °C | |

9.2 Other Information

9.2.1 Physical Hazards

| Property | | Typical Value |
|---|---|---|
| OXIDATION | | Non oxidising |
| EXPLOSIVE PROPERTIES | | Not Explosive |
| EVAPORATION RATE | Butyl acetate = 1 | Not established |

9.2.2 Other Safety Characteristics

| Property | | Typical Value |
|---|---|---|
| SOLUBILITY/MISCIBILITY | g/L @ 20 ºC | Not established |

## Section 10 STABILITY & REACTIVITY

10.1 Reactivity Pressurised container, may burst if heated.
10.2 Chemical stability: Stable under recommended storage and use conditions.
10.3 Possibility of hazardous reactions: None known
10.4 Conditions to avoid: Avoid high temperatures and open flames, direct sunlight.
10.5 Incompatible materials: Avoid mixing with oxidising agents.
10.6 Hazardous decomposition products: Does not decompose under normal use conditions. Decomposition will normally only occur if product is involved in a fire

## Section 11 TOXICOLOGICAL PROPERTIES

11.1 Toxicological effects:

Components:

| | | |
|---|---|---|
| (R)-p-Mentha-1,8-diene | LD50 (Rat. Oral) | >5000 mg/kg |
| | LD50 (Rabbit, Dermal) | >5000 mg/kg |

Mixture: No significant health hazard when properly used for the application it was designed for.
See section 4 for exposure symptoms
May cause an allergic skin reaction

Route of exposure:
Dermal and eye contact
Ingestion or inhalation

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not applicable, no endocrine disrupting agents are present in the product

11.2.2 Other hazards

No data

## Section 12 ECOLOGICAL PROPERTIES

12.1 Ecotoxicity

| | | |
|---|---|---|
| Hydrocarbon C10-13, n-alkanes, iso-alkanes, cyclic, <2% aromatic | LC50 (fish, 96h) | >1000 mg/L |
| | EC50 (Daphnia magna, 48h) | >1000 mg/L |

12.2 Persistence and Degradability:
Data not established.
12.3 Bioaccumulative potential
The product does not contain substances having a potential for bioaccumulation.
12.4 Mobility in soil
12.5 Product is miscible in water. No data on soil mobility
PBT & vPvB Assessment
Does not contain any PBT or vPvB substances
12.6 Endocrine disrupting properties
Does not contain any endocrine disrupting agents
12.7 Other adverse effects
The product is harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment

## Section 13 DISPOSAL INFORMATION

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.)
Aerosol containers should be safely disposed in accordance with local authority requirements. Do not pierce or burn.

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

## Section 14 TRANSPORT INFORMATION

### 14. TRANSPORT INFORMATION

General: The UN Number for all aerosols is 1950.

Aerosols packed in fibreboard cartons up to 30 kg gross weight or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities – they should display the following symbol on the pack:

The following information relates to all other aerosols not transported as Limited Quantities

| | |
|---|---|
| 14.1 UN No | 1950 |
| 14.2 Proper Shipping Name: | Aerosols, Flammable |
| 14.3 Hazard Class | 2.1 (ADR/RID, IMDG, IATA, ICAO) |
| 14.4 Packaging Group | Not applicable (aerosols) |
| 14.5 Environmental Hazard | No |
| Marine pollutant | No |
| 14.6 Special Provisions | No data |

Label for Conveyance:


## Section 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.

All 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 (CLP)
UN Globally Harmonised System (GHS) for Classification & Labelling ST-SG-AC10-30
UK - Occupational Exposure Limits Guidance Note EH40
EU Occupational Exposure Limits – Directives 2000/39/EC, 2006/15/EC and 2009/161/EU
Detergents – Regulation (EC) 648/2004
Regulation (EU) 2017/2100 setting out scientific criteria for the determination of endocrine-disrupting properties.
Personal Protective Equipment – Directive 89/686/EEC
Waste – Directive 2008/98/EC

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for the product by the supplier

## Section 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:

H220 Extremely flammable gas
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation
H400 Very toxic to aquatic life

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

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;
STOT SE Specific Target Organ Toxicity – Single Exposure
STOT RE Specific Target Organ Toxicity – Repeated Exposure
ATE Acute Toxicity Estimate
M-Factor Multiplication Factor
SCL Specific Concentration Limit
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