

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product name: Pump House Outdoor Coil Cleaner

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

Identified uses: Condenser cleaner

1.3. Details of the supplier of the safety data sheet

Pump House Pumps Ltd, Glaisdale Drive East, Nottingham, NG8 4LY, United Kingdom
T+44 (0) 115 500 5858, F+44 (0) 115 929 4468, info@pumphousepumps.com

1.4. Emergency telephone number

+44 (0)115 500 5858

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

Classification (EC 1272/2008)

- Physical and Chemical Hazards: Not classified.
- Human health: Carc. 2 - H351
- Environment: Not classified.

Classification (1999/45/EEC): Carc. Cat. 3;R40.

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

2.2. Label elements

Contains: DICHLOROMETHANE

Label In Accordance With (EC) No. 1272/2008



Signal Word: Warning

Hazard Statements:

- H351 - Suspected of causing cancer.
- H229 - Pressurised container: May burst if heated

Precautionary Statements:

- P102 - Keep out of reach of children.
- 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.
- P260 - Do not breathe vapour/spray.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective clothing and gloves.
- P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
- P501 - Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements:

- P308+313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

DICHLOROMETHANE 60-100%

- CAS-No.: 75-09-2
- EC No.: 200-838-9
- Classification (67/548/EEC): Carc. Cat. 3;R40
- Classification (EC 1272/2008): Carc. 2 - H351
- Registration Number: 01-2119480404-41

Orange Terpene 1-5%

- CAS-No.: 8028-48-6

- EC No.: 232-433-8
- Classification (67/548/EEC): Xn;R65. R10.
- Classification (EC 1272/2008): Not classified.

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. Inhalation: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get medical attention immediately!

Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

Eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

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

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Fire can be extinguished using: Water spray, fog or mist. Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards: May develop highly toxic or corrosive fumes if heated. May form explosive or toxic mixtures with air. Aerosol cans may explode in a fire.

Specific hazards: Acrid smoke/fumes of: Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrogen chloride (HCl). Phosgene (COCl₂). Aerosol containers can explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Special Fire Fighting Procedures: Avoid breathing fire vapours. Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. If risk of water pollution occurs, notify appropriate authorities.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Collect with absorbent, non-combustible material into suitable containers. Collect and reclaim or dispose in sealed containers in licensed waste. Clean-up personnel should use respiratory and/or liquid contact protection. When dealing with a spillage, please consult the section relating to suitable protective measures. Should be prevented from entering drains. Do not contaminate water sources or sewer. Inform Authorities if large amounts are involved.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment. Wear full protective clothing for prolonged exposure and/or high concentrations.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
DICHLOROMETHANE	WEL	100 ppm(Sk)	350 mg/m3(Sk)	300 ppm(Sk)	1060 mg/m3(Sk)	
Orange Terpene	WEL		800 mg/m3			

WEL = Workplace Exposure Limit.

Ingredient Comments: WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment



Engineering measures: All handling to take place in well-ventilated area. Provide adequate general and local exhaust ventilation. Must not be handled in confined space without sufficient ventilation.

Respiratory equipment: Respiratory protection must be used if air contamination exceeds acceptable level. Supplied-air respirator. Self-contained breathing apparatus.

Hand protection: Use suitable protective gloves if risk of skin contact.

Eye protection: Use approved safety goggles or face shield.

Other Protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures: DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Aerosol.

Colour: Colourless.

Odour: Oranges

Solubility: Slightly soluble in water. Soluble in: Organic solvents

Initial boiling point and boiling range (°C): ~40

Relative density: ~1.22@20°C

Vapour density (air=1): (Dichloromethane) 2.93

Vapour pressure: (dichloromethane) 380mbar @20°C

Evaporation rate: <2% in 30 minutes

Viscosity: Brookfield ~3000cps @20°C

Solubility Value (G/100G H2O@20°C): ~7

Flash point (°C): None

9.2. Other information

Volatility Description: Volatile

Volatile By Vol. (%): 100%

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions. Will decompose on red hot surfaces, in electric arcs or naked flames to evolve predominantly hydrochloric acid and a trace of phosgene gas.

10.3. Possibility of hazardous reactions**10.4. Conditions to avoid**

Avoid heat. Avoid contact with oxidisers or reducing agents.

10.5. Incompatible materials**10.6. Hazardous decomposition products**

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Phosgene (COCl₂). Hydrogen chloride (HCl).

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50: (dichloromethane) 1600 mg/kg (oral rat)

Other Health Effects: IARC Int. Agency for Cancer Research. Consolidated carcinogen list. Carcinogen Category 3.

Inhalation: Vapours may cause headache, fatigue, dizziness and nausea. May cause irritation to the respiratory system. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Ingestion: Swallowing concentrated chemical may cause severe internal injury. May cause liver and/or renal damage.

Ingestion of large amounts may cause unconsciousness.

Skin contact: Irritating to skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

Eye contact: Irritating to eyes.

Health Warnings: Gas or vapour is harmful on prolonged exposure or in high concentrations. This chemical may cause skin/eye irritation. CNS depressant.

Route of entry: Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

Target Organs: Central nervous system Eyes Heart & cardiovascular system Kidneys Liver Respiratory system, lungs Skin

Medical Symptoms: Extreme irritation of eyes and mucous membranes, including burning and tearing. Dilated pupils.

Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression.

Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure).

Medical Considerations: Skin disorders and allergies. Liver and/or kidney problems. Convulsive disorders, CNS problems. History of smoking.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l

193-330 (dichloromethane)

12.2. Persistence and degradability

Degradability: The product is slowly degradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil**12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects****SECTION 13: DISPOSAL CONSIDERATIONS**

General information: Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

UN No. (ADR/RID/ADN): 1950

UN No. (IMDG): 1950

UN No. (ICAO): 1950

14.2. UN proper shipping name

Proper Shipping Name: AEROSOLS (DICHLOROMETHANE)

14.3. Transport hazard class(es)

ADR/RID/ADN Class: 2

ADR/RID/ADN Class: Class 2: Gases

ADR Label No.: :2.2

IMDG Class: 2.2

ICAO Class/Division: 2.2

ICAO Subsidiary risk: 6.1

Transport Labels

**14.4. Packing group****14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant: No.

14.6. Special precautions for user

Hazard No. (ADR): Not relevant

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

UK Regulatory References: Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice: Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes: Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation: Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

National Regulations: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

15.2. Chemical Safety Assessment**SECTION 16: OTHER INFORMATION**

Safety Data Sheet Status: Approved.

Date: 14.08.2013

Risk Phrases In Full

- R10 - Flammable
- R65 - Harmful: may cause lung damage if swallowed.
- R40 - Limited evidence of a carcinogenic effect.

Hazard Statements In Full

- H351 - Suspected of causing cancer.

Disclaimer: 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.