

## I. Product and Company Identification

### 1.1 Identification of the substance or preparation:

### **OCS PERSNICKETY STERICIDE™**

1.2 Company Identification: Odour Control Systems Limited  
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Hawarden Industrial Park  
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CH5 3PP.  
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## II. Composition/Information on Ingredients

- 2.1 Chemical Composition: Preparation of Aqueous solution of stabilised buffered chlorine dioxide, sodium hydroxide, didecyldimethyl ammoniumchloride, surfactant and inert ingredients.  
Water
- 2.2 Risk Phrases: R8 Contact with combustible materials may cause fire.  
R22 Harmful if swallowed.  
R32 Contact with acids liberates toxic gas.
- 2.3 Classification/Symbol: O Oxidising  
XN Harmful

## III. Hazards Identification

- 3.1 Adverse Health Effects: Irritating to eyes.  
Harmful if swallowed.
- 3.2 Environmental Effects: Toxic to aquatic organisms.
- 3.3 Physical & Chemical: In contact with acids or when heated or under sunlight, may develop very toxic gas (chlorine dioxide) which may cause risk of explosion.  
Contact with combustible materials (grease, fats, wood, cellulose, paper, etc) may cause fire.  
Contact with reducing agents and sulphur containing substances causes violent exothermic reaction.

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## IV. First Aid Measures

- 4.1 Eye Contact: Immediately flush eyes with water for at least 15 minutes.
- 4.2 Skin contact: Remove contaminated clothing and wash affected areas with soap & water. Soak contaminated clothing with water to prevent fire risk. Seek medical attention.
- 4.3 Inhalation: Remove to fresh air. Seek medical attention. (If the patient is affected by chlorine dioxide, this is very toxic and requires urgent medical attention).
- 4.4 Ingestion: Rinse mouth with water and give water or milk to drink. Seek urgent medical attention.

## V. Fire Fighting Measures

- 5.1 Special Fire/Explosion May decompose in fire producing toxic chlorine compounds. Strong oxidising agent will assist combustion.
- 5.2 Products of combustion Not combustible. Toxic chlorine compounds released in fire.
- 5.3 Fire Fighting procedures/  
extinguishing media Wear S.C.B.A. for chlorine/chlorine dioxide  
Keep containers cool with water spray.  
Avoid dispersion in the water courses.  
Do not use carbon dioxide or organic material.  
Risk of drums bursting.

## VI. Accidental Release Measures

- 6.1 Personal Protection: Wear goggles, plastic gloves (not rubber) and boots. Eyewash facilities should be available.
- 6.2 Environmental Precautions Do not allow to dry. If possible drench with water.  
Contain with inert material.  
Pump into a suitable container or otherwise absorb in sand.  
Do not absorb in sawdust or other combustible materials.  
If substance has entered a water course or sewer or contaminated soil or vegetation, advise police.
- 6.3 Methods of Cleaning Up: Flush away any residues with excess water.

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## VII. Handling and Storage

- 7.1 Precautions During Handling:
- Technical Measures: Ventilation of the place, local exhaust of vapours (in case of product decomposition).
- Precautions: Avoid contact with eyes and skin and breathing of any activated chlorine dioxide vapours.  
Wear personal protective equipment, maintain eye washer/shower facilities and source of running water in the vicinity.
- Safe Handling Advice: Handle product with care and avoid contamination.
- 7.2 Precautions During Storage:
- Storage Conditions: Store in a cool, clean, well ventilated area.  
Do not store on wooden surfaces or flammable pallets.  
Keep away from incompatible (especially acids) and combustible materials, from direct sunlight and heating sources.  
Provide water facilities, do not allow spilt product dry.
- 7.3 Packaging Materials: Do not use common steel, aluminium, copper and its alloys or rubber. Use stainless steel, glass, ceramics, polyethylene, PVC.

## VIII. Exposure Controls/Personal Protection

- 8.1 Special Protective Measures
- Respiratory: Ensure working room air concentrations are less than 0.1 ppm chlorine dioxide gas S.C.B.A. when chlorine dioxide gas is evolved.
- Hand: Wear plastic gloves.
- Eye: Wear goggles.
- Skin: Work suit, preferably made of PVC, Neoprene, nitrile rubber.  
Avoid leather, cotton or natural rubber due to fire risk.
- 8.2 Exposure Limits: For chlorine dioxide gas:  
0.1ppm (0.3mg/cu.m)  
0.3ppm (0.9mg/cu.m) STEL

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## IX. Physical and Chemical Properties

9.1 Physical State:	Pale yellow-green solution
9.2 Odour:	Weakly aromatic
9.3 Temperature Characteristics	Boiling point : < 100 deg F Freezing point :< minus 4 deg C.
9.4 pH:	9.00 – 9.5
9.5 Solubility: In water In solvents	Completely miscible Not soluble.
9.6 Vapour pressure	Similar to water
9.7 Density:	1.00
9.8 Flammability	Not combustible

## X. Stability and Reactivity

10.1 Stability:	Minimum 6 months in unopened containers.
10.2 Conditions/Materials to Avoid:	Avoid exposure to direct sunlight and heat. Decomposed by acids and organic matter.
10.3 Decomposition Temperature and Dangerous Products Released:	May decompose to produce chlorine dioxide gas which can cause overpressure and burst in confined spaces. Toxic chlorine dioxide gas may then be released.

## XI. Toxicological Information

11.1 Acute Toxicity:	LD50 orl.rat (by feeding-m/f): 0.5 gm kg
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## XII. Biological Information

12.1 Mobility:	Will disperse through aqueous systems.
12.2 Persistence and Degradability:	Will degrade.
12.3 Bioaccumulative Potential:	Not known.

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## XIII. Disposal Considerations

- 13.1 Disposal of product: Disposal of through approved waste disposals operative.
- 13.2 Disposal of packaging: Rinse empty containers thoroughly before disposal.

## XIV. Transport Information

- 14.1 UN No: 3139
- 14.2 UK Road:  
Hazchem code:  
Classification: Harmful substance  
Packing group: II
- 14.3 Spillage: Larger than 25 litres, decontaminate with sodium sulphite solution with a contact time of at least 10 mins, then dilute with water & flush to foul drain.

## XV. Regulatory Information

- 15.1 The chemicals (Hazard Information and Packaging for Supply) Regulations 1994:

EINECS No:	231-836-6
Index No:	Not Listed
Risk Phrases :	R8 Contact with combustible materials may cause fire R22 Harmful if swallowed R32 Contact with acids liberates very toxic gas
Safety phrases:	S14 Keep away from acids S17 Keep away from combustible materials S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Classification Symbols:	O Oxidizer Xn Harmful

- 15.2 Exposure Limits: For chlorine dioxide gas:-  
0.1 ppm (0.3 mg/cu.m).  
0.2 ppm (0.9 mg/cu.m). STEL.

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## XVI. Other Information

16.1 Recommended uses: Industrial Odour Control Compound and Biocide

This information is given in good faith and is based on information and tests believed to be reliable. The suitability of this product for any particular use is not suggested or implied. This document is not a specification and properties shown are not guaranteed.

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Each recipient should carefully review this information, data and recommendations in this specific context of its intended use. This product should only be used according to the specific guidelines for use laid out in Odour Control Systems Limited publications. Use of these products is deemed to be acceptance of the above.

Always **READ** material safety data sheet before use.

preserving the environment

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