



I. Product and Company Identification

1.1 Identification of the substance or preparation:

CRYSTALLINE SODIUM CHLORITE

1.2 Company Identification:

Odour Control Systems Limited
33A Castle Close,
Hawarden Industrial Park
Manor Lane,
Hawarden,
Deeside.
CH5 3PP.
Tel: 01244 536700 Fax: 01244 535184

II. Composition/Information on Ingredients

2.1 Chemical Composition:

Sodium Chlorite – nominal 80%.

2.2 Risk Phrases:

R8 Contact with combustible materials may cause fire.
R32 Contact with acids liberates very toxic gas.
R41 Risk of serious damage to eyes.

2.3 Classification/Symbol:

Oxidising

III. Hazards Identification

3.1 Adverse Health Effects:

Risk of serious damage to eyes.
Irritating to skin.
Harmful if swallowed.
Contact with acids liberates Chlorine Dioxide.
Oxidising.

3.2 Environmental Effects:

Toxic to aquatic organisms.

3.3 Physical & Chemical Hazards:

In contact with acids may develop chlorine dioxide which may cause risk of explosion. Contact with combustible materials (grease, fats, wood, cellulose, paper, etc.) may cause fire.

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IV. First Aid Measures

- 4.1 Eye Contact: Immediately flush eyes with water for at least 15 minutes. Seek medical attention.
- 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 if irritation develops and persists.
- 4.3 Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention.
- 4.4 Ingestion: If patient is conscious, rinse mouth with water and give water to drink in small sips. Do not induce vomiting. Seek immediate medical attention.

V. Fire Fighting Measures

- 5.1 Special Fire/Explosion May decompose in fire producing toxic chlorine compounds.
- 5.2 Products of combustion Not combustible, but has oxidising properties.
- 5.3 Fire Fighting procedures/
Extinguishing Media: If in vicinity of fire:
- Keep containers cool with water spray.
- Do not use carbon dioxide or organic material.

VI. Accidental Release Measures

- 6.1 Personal Protection: Wear goggles, plastic gloves and boots. Eyewash facilities must be available.
- 6.2 Methods of Cleaning Up: Dispose of under local regulations.

VII. Handling and Storage

- 7.1 Precautions During Handling:
Technical Measures: Ventilation of the place, local exhaust of dust or vapours (in case of product decomposition).
- Precautions: Avoid contact with eyes and skin. Wear personal protective equipment.
- Safe Handling Advice: Handle product with care and avoid contamination.
- 7.2 Precautions During Storage:
Storage Conditions: Store in a dry, cool, clean, well ventilated area.
Do not store on wooden surfaces or flammable pallets.
Keep away from incompatible (especially acids) and combustible materials.
- 7.3 Packaging Materials: Only use containers specifically designed for Sodium Chlorite.
Do not store in aluminium, copper and its alloys, rubber.

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VIII. Exposure Controls/Personal Protection

8.1 Special Protective Measures

Respiratory:	If dust is generated during handling, wear dust mask.
Hand:	Wear plastic gloves.
Eye:	Wear goggles or face shield.
Skin:	Work suit, preferably made of PVC, Neoprene, nitrile rubber. Avoid leather, cotton or natural rubber due to fire risk.

8.2 Exposure Limits: 0.1ppm 8hr TWA, 0.3ppm STEL AS Chlorine Dioxide.

IX. Physical and Chemical Properties

9.1 Physical State:	Crystalline Solid.
9.2 Odour:	Typical.
9.3 Temperature Characteristics:	Decomposes at 1750C
9.4 pH:	N/A
9.5 Solubility: In Water:	39% at 250C
9.6 Vapour Pressure:	No Data
9.7 Density:	No Data
9.8 Flammability:	N/A

X. Stability and Reactivity

10.1 Stability	Stable
10.2 Conditions/Materials to Avoid:	Avoid direct exposure to acids and organic and combustible matter.
10.3 Decomposition	On contact with above conditions may decompose to and Dangerous Products release chlorine dioxide gas.

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XI. Toxicological Information

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| 11.1 Acute Toxicity: | LD50 orl.rat (by feeding-m/f): 350 mg/kg.
Ld50 dermal.rbt: 2g/Kg. |
| 11.2 Local Effects: | Skin contact: not irritating (patch test, rabbit, 4h)
Eyes: mild irritant to eyes (Draiza test rabbit). |
| 11.3 Sensitisation: | No data. |
| 11.4 Long Term Toxicity: | Carcinogenicity: No carcinogenic potential. |
| 11.5 Experience in Humans: | Continued inhalation of decomposition products may cause lung oedema. |

XII. Biological Information

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| 12.1 Persistence and Degradability: | Chemical Impregnate will degrade |
| 12.2 Bioaccumulative Potential: | Non known. |

XIII. Disposal Considerations

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| 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

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| 14.1 UN No.: | 1496 |
| 14.2 UK Road: | |
| Classification: | 5.1 (Oxidiser) |
| Packing Group: | II. |
| 14.3 Spillage: | Contain large spillage's, then remove to suitable sealed containers and dispose of through approved waste disposals operative. |

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XV. Regulatory Information

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

Risk Phrases :	R8	Contact with combustible materials may cause fire
	R32	Contact with acids liberates very toxic gas
	R41	Risk of serious damage to eyes.
Safety phrases:	S14	Keep away from acids
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

XVI. Other Information

16.1 Recommended uses:

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.

Information on this form is furnished in compliance with current legislation. It is the responsibility of the recipient to pass on this information to relevant departments/persons involved. Odour Control Systems Limited assumes no responsibility for injury of death and/or third persons, however caused. The user, bailee and their respective employees and agents assume all such risks if reasonable safety procedures are not adhered to.

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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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