

SAFETY DATA SHEET



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: OC-200 (UK)
PRODUCT CODE: 6567
NAME OF THE MANUFACTURER: Rochester Midland Corporation Ltd.
Unit 24, Nine Mile Point Industrial Estate
Cwmfelinfach, Crosskeys, Gwent
Wales, UK NP11 7HZ
Tel No. +44 1495 200005
Fax No. +44 1495 201416
proberts@rmcorp.co.uk
EMERGENCY PHONE: +44 1495 200005 (24 hours per day)
APPLICATION: According to Regulation (EC) 1907/2006

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS

- Risk of serious damage to eyes Risk of flammability if combustible materials absorb liquid then dry. Irritating to respiratory system Contact with acids liberates toxic gas Very toxic to aquatic organisms

EFFECTS/CARCINOGENICITY: None listed under OSHA, IARC, or NTP.
ROUTES OF ENTRY: Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	EINECS Number	EEC Classification and Risk Phrases
Sodium chlorite (irritant) 7758-19-2	20 - 30	231-836-6	Xn; R22;R32;Xi;R41;N;R50
SODIUM CARBONATE 497-19-8	1 - 2	207-838-8	Xi;R36
SODIUM HYDROXIDE 1310-73-2	1 - 2	215-185-5	C;R35
SODIUM CHLORATE 7775-09-9	1 - 2	231-887-4	O;R9 Xn;R22 N;R51-53

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

INGESTION: DO NOT INDUCE VOMITING. Drink one or two glasses of water. Get medical attention. Never give anything by mouth to an unconscious person.

SKIN: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

INHALATION: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

EYES: Remove contact lenses. Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

NOTES TO PHYSICIAN: None.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:
EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:
SENSITIVITY TO MECHANICAL IMPACT(Y/N):
SENSITIVITY TO STATIC DISCHARGE:
FIRE FIGHTING PROCEDURES:

Water fog, carbon dioxide, foam, dry chemical.
 Organic compounds

Wear self-contained breathing apparatus and protective suit.
 NO
 Sensitivity to static discharge is not expected.
 Chlorine dioxide is explosive in the gaseous phase at concentrations greater than 10% by volume. Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS:
LARGE SPILLS:

Flush with water.
 Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

PERSONAL PRECAUTIONS:

Evacuate personnel to safe areas. Keep people away from spill/leak. Remove all sources of ignition. Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection.

ENVIRONMENTAL PRECAUTIONS:

Do not let product enter drains. As with all chemical products, do not flush into surface water. Avoid subsoil penetration.

METHODS FOR CLEANING UP:

Small amounts: Dam up. Soak up with absorbent material and dispose of as hazardous waste. After cleaning, flush away traces with water. Large amounts: If liquid has been spilt in large quantities recover by pumping (use an explosion proof or hand pump) or by a suitable absorbent. Clean contaminated surface thoroughly with large amounts of water.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Use only clean equipment. Never return unused material to storage receptacle. Keep away from heat and sources of ignition. Provide for appropriate exhaust ventilation at machinery. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep container closed. Store in a well ventilated area. Avoid direct sunlight. Store only in original container and keep closed.

OTHER PRECAUTIONS:

Do not store on wooden pallets. Do not allow to dry. Do not store together with brennbaren Materialien.

SPECIFIC USE(S):

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT: EXPOSURE CONTROLS:



Ensure adequate ventilation, especially in confined areas. The use of mechanical dilution ventilation is recommended whenever this product is used in confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limits.

RESPIRATORY PROTECTION: PROTECTIVE GLOVES:

Use approved NIOSH respiratory protection if TLV exceeded or if over exposure is likely. Nitrile (NBR). Neoprene. Avoid natural rubber gloves. Do not wear cotton gloves. Do not wear leather gloves.

EYE PROTECTION: OTHER PERSONAL PROTECTION EQUIPMENT:

Goggles. Face shield.
 Eyewash fountains and safety showers must be easily accessible. Appropriate protective clothing as needed to prevent skin contact. Do not wear protective clothes containing cotton. Work clothing and shoes must not be taken home. Safety shower should be located in immediate work area.

VENTILATION:

Use only in well ventilated area.

HYGIENIC WORK PRACTICES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. No eating or drinking while working with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Light yellow liquid. Slight chlorine odor.
BOILING POINT (F):	217.4° F (C) 103° C
VAPOR PRESSURE:	Chlorine dioxide = 0.2 mm Hg
VAPOR DENSITY (AIR=1):	NE
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	Not determined
VOV Content (%):	Not established
PH:	13
(F):	NA (C): NA
METHOD:	None
FLAMMABLE LIMITS IN AIR	
LOWER (%):	None
UPPER (%):	None

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE Unstable if heated (>50°C). Thermal decomposition products are toxic.
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Exposure to acids or chlorine compounds can produce uncontrolled generation of chlorine dioxide gas.
INCOMPATIBILITY (MATERIALS TO AVOID):	Acids. Combustible/flammable materials. Reducing agents. copper
CONDITIONS/HAZARDS TO AVOID:	Avoid temperatures above 50° C. Risk of flammability if combustible materials absorb liquid then dry.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Oral: LD50/oral/rat > 284 mg/kg. (Harmful if swallowed). Skin: LD50/dermal/rabbit = 2000 mg/kg Inhalation: Chlorine dioxide: Very toxic by inhalation. Irritating to respiratory system.
EFFECTS OF CHRONIC EXPOSURE:	Not established.
OTHER TOXIC EFFECTS:	Not established.
EFFECTS FROM ACUTE EXPOSURE:	
SKIN CONTACT:	Causes mild skin irritation.
EYE CONTACT:	Causes severe eye irritation.
CHRONIC EFFECTS:	None known.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	Toxicity to fish: LC50/fish/96 hours > 100 mg/l. (Low order of toxicity). Toxicity to daphnia: EC50/Daphnia/48h = 0.026 mg/l. (Very toxic). Toxicity to algae: IC50/Algae/72h = 1 mg/L. (Toxic).
CHEMICAL FATE INFORMATION:	No data at this time.
MOBILITY:	Not applicable.
PERSISTENCE/DEGRADABILITY:	Not applicable
BIOACCUMULATIVE POTENTIAL:	Not applicable
OTHER ADVERSE EFFECTS:	Not applicable

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose of in accordance with Local Authority requirements.

14. TRANSPORT INFORMATION



UN NO. ROAD: 1908
ADR CLASS No.: Class 8: Corrosive substances.
ADR CLASS 8
ADR PACK GR.: II
HAZARD No. (ADR) 80
ADR LABEL No.: 8
Proper Shipping Name: Chlorite Solution

RID CLASS No.: 8
RID PACK GR.: II

IMDG UN No.: 1908
IMDG CLASS 8
IMDG PACK GR.: II
EmS No.: F-A, S-B
Marine Pollutant: Yes.

ICAO/IATA UN No.: 1908
ICAO/IATA CLASS 8
ICAO/IATA PACK GR.: II

15. REGULATORY INFORMATION

LABEL FOR SUPPLY

Xn

N



R - PHRASE(S)

R22 - Harmful if swallowed R32 - Contact with acids liberates very toxic gas R41 - Risk of serious damage to eyes R50 - Very toxic to aquatic organisms
 R36/37 - Irritating to eyes and respiratory system

15. REGULATORY INFORMATION

SAFETY PHRASES:

S14 Keep away from

S16 Keep away from sources of ignition - No Smoking.

S17 Keep away from combustible material.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27 Immediately take off all contaminated clothing.

P-14 Contains Formaldehyde. May produce an allergic reaction.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

GUIDANCE NOTES:

The MSDS was prepared in accordance with the following: ISO 11014-1: Material Safety Data Sheet for Chemical Products RegCE N° 1907/2006

Text of R phrases mentioned in Section 3

R 9 - Explosive when mixed with combustible material

R22 - Harmful if swallowed

R32 - Contact with acids liberates very toxic gas

R35 - Causes severe burns

R36 - Irritating to eyes

R41 - Risk of serious damage to eyes

R50 - Very toxic to aquatic organisms

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REVISION NUMBER: 1

PREPARED BY: EH&S DEPARTMENT

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF SDS ***