



Safety Data Sheet

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REVISION (see box 16)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME	Calmic Type D Formulation
DESCRIPTION	An opaque, white, crystalline solid with a mild disinfectant-type odour, used in the Calmic Sanitizer Unit for the inhibition of bacterial growth in waste-pipes from urinals and WCs.
COMPANY	Rentokil Initial Supplies, Head office: Felcourt, East Grinstead, West Sussex. RH19 2JY. United Kingdom. Telephone: +44 (0)1342 833022 Facsimile: +44 (0)1342 326229.

2 HAZARD IDENTIFICATION

CLASSIFICATION AND DANGER SYMBOL (SUPPLY – USE): In compliance with EC Directive 1999/45.

X_n Harmful R22 Harmful if swallowed.
X_i Irritant R41 Risk of serious damage to eyes.
 R38 Irritating to skin.
N Dangerous for the Environment. R50 Very toxic to aquatic organisms.



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (See also box 11):

Nitrous gases, hydrochlorides, amines, benzaldehyde and/or alkyl chlorides may be released upon decomposition. Propionaldehyde may be formed on combustion.
 Ingestion may cause soreness and redness of mouth and throat with pain and difficulty in swallowing. May also cause irritation of the digestive system, nausea, vomiting and stomach pains. Contact will cause serious damage to eyes. Contact with skin will cause irritation.
 Adverse effects on the environment are unlikely, provided that the product is used as intended.

3 COMPOSITION / INFORMATION ON INGREDIENTS

% w/w	COMMON*/CHEMICAL NAME, ELINCS/EINECS AND CAS OF INGREDIENTS	EC 1999/45 CLASSIFICATION
> 25 ≤ 50	Tetradecyl benzyl dimethyl ammonium chloride EINECS : 205-352-0 CAS : 139-08-2	X _n - Harmful : R22 : Harmful if swallowed. X _i - Irritant : R36/38 : Irritating to eyes and skin. N- Dangerous for the environment : R50 : Very toxic to aquatic organisms.
> 25 ≤ 50	Alkyl polyoxyethene glycol ether CAS : 68439-45-2	X _n - Harmful : R22 : Harmful if swallowed. X _i - Irritant : R41 : Risk of serious damage to eyes.
> 2.5 ≤ 10	Monopropylene glycol* / propane-1,2-diol / CAS : 57-55-6	Not classified.

4 FIRST-AID MEASURES (see also "Adverse effects" in box 2)

INHALATION	Unlikely route of exposure. However, Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
EYE CONTACT	Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention.
SKIN CONTACT	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
INGESTION (SWALLOWING)	Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious give patient up to ½ litre or 1 pint of water to drink. Seek medical attention.
EMERGENCY EQUIPMENT SUGGESTED	Appropriate first-aid equipment should be provided. For the UK this should be in accordance with the Health & Safety (First-Aid) Regulations 1981. See also the Approved Code of Practice "First-aid at Work".
NOTE TO DOCTOR	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK. Telephone +44 (0) 870 600 6266 - 24 hours.

5 FIRE FIGHTING MEASURES

FIRE EXTINGUISHER TYPE	Use carbon dioxide, foam, powder or water-mist. DO NOT use water-jets.
SPECIAL FIRE-FIGHTING PROCEDURES	Wear suitable personal protective equipment.
SPECIAL EXPOSURE HAZARDS	Propionaldehyde may be formed on combustion.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS (See also box 8)	Wear suitable personal protective equipment.
PROCEDURE (See also box 13)	Collect up spilt material and transfer to a suitable container for re-use or subsequent disposal. DO NOT contaminate watercourses or ground.

7 HANDLING AND STORAGE

HANDLING	Avoid contact with skin and eyes. Wear suitable gloves. Wear eye/face protection.
Storage	Store in original container in a cool, dry, ventilated place out of the reach of children and away from food, drink and animal feeding stuffs.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION (See also box 7)

EXPOSURE STANDARD Directive EC/98/24 (1 st IOELV Directive)	OES for propane-1,2-diol for total (vapour and particulates) is 474 mg/m ³ long-term exposure (8 hour Time Weighted Average) and for particulates is 10 mg/m ³ long-term exposure (8 hour TWA).
ENGINEERING CONTROLS	Where prevention of exposure is not reasonably practicable, adequate control of exposure should be achieved by engineering controls rather than the provision of personal protective equipment and clothing. More specific details cannot be given without carrying out a full risk assessment for each and every use scenario. Suitable and approved personal protective equipment and clothing may include the following item(s):
EYE PROTECTION	Wear suitable eye protection such as safety glasses or goggles.
HAND PROTECTION	Wear suitable hand protection such as synthetic rubber/PVC gloves.
SKIN PROTECTION	Wear suitable skin protection such as coveralls.
BREATHING PROTECTION	None necessary under normal working conditions.
ENVIRONMENTAL EXPOSURE CONTROLS	Product should be used in accordance with instructions given on the product label and any spillage should be dealt with as a priority in order that contamination of watercourses or ground is avoided.



9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	An opaque, white, crystalline solid with a mild disinfectant-type odour.		
pH	2.7 at 20°C (1% aqueous solution)	SOLUBILITY IN WATER	Soluble.
DENSITY	0.94 g/cm ³ at 20°C	SOLUBILITY IN FAT	Not determined.
FLASH POINT	Not applicable.	EXPLOSIVE PROPERTIES	None known.
FLAMMABILITY	Non-flammable.	BOILING POINT/RANGE	Not applicable.
AUTOFLAMMABILITY	Not determined.	MELTING POINT/RANGE	Not determined.
VAPOUR DENSITY	Not applicable.	EVAPORATION RATE	Not applicable.
VAPOUR PRESSURE	Not applicable.	PARTITION COEFFICIENT	Not applicable.
VISCOSITY	Not applicable.	OXIDISING PROPERTIES	None known.
OTHER DATA	None known.		

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)

UN No.	Not Classified.		TREMCARD REFERENCE NO.	Not required.	LABELS	
UK CDGCPL2 (UK ROAD)	CLASS	N/A	UK HAZCHEM EAC	Not required.	Not required.	
UK CDGROAD TRANSPORT CATEGORY	Not required.					
PROPER SHIPPING NAME	Not required.					
LIMITED QUANTITY EXCEPTIONS	Not required.					
SPECIAL REQUIREMENTS	Not required			PACKING GROUP		Not required.
ADR 2003 (INTERNATIONAL ROAD)	CLASS	N/A	ADR HIN	Not required.		
PROPER SHIPPING NAME	Not required.					
LIMITED QUANTITY EXCEPTIONS	Not required.					
SPECIAL REQUIREMENTS	Not required.			PACKING GROUP		Not required.
IMDG 2002 (SEA)	CLASS	N/A	IMDG EMS	Not required.		
PROPER SHIPPING NAME	Not required.					
LIMITED QUANTITY EXCEPTIONS	Not required.					
SPECIAL REQUIREMENTS	Not required.			PACKING GROUP		Not required.
NOTE FOR TRANSPORT.	Local, State or National requirements may apply to the carriage of this product.					

15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (see also box 2))

HAZARD SYMBOLS		
CLASSIFICATION	X_n - Harmful	N- Dangerous for the Environment
RISK PHRASES	R22 : Harmful if swallowed. R41 : Risk of serious damage to eyes. R38 : Irritating to skin. R50 : Very toxic to aquatic organisms.	
SAFETY PHRASES	S24/25 : Avoid contact with skin and eyes. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35 : This material and its container must be disposed of in a safe way. S39 : Wear eye/face protection.	
LEGISLATION	Labelling is according to UK regulations implementing the EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with local legislation. Specific legislation used within this Safety Data Sheet is listed in the above boxes.	

16 OTHER INFORMATION and indication of revisions

The information given on this Safety Data Sheet (SDS) **does not** constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK.
Before using any product, ensure that you read and understand its label.
 Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.
 Changes have been made to the content of boxes 01, 02, 03, 04, 07, 08, 09, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 04.

Before using any product, ensure that you read and understand its label.

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Rentokil Initial UK Ltd is not liable for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.