

# Safety Data Sheet

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**REVISION (see box 16)**

Issue : 10 23 : 08 : 2010

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
<b>Product Name</b>	<b>PR19 DETERGENT BACTERICIDE</b>
<b>Description</b>	A broad-spectrum, detergent bactericide concentrate for professional use. A clear, pale yellow liquid with a minimal odour.
<b>Company</b>	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1342 833 022 E-mail: <a href="mailto:sds@rentokil.com">sds@rentokil.com</a>

2 HAZARD IDENTIFICATION	
<b>Classification (Supply – Use) : In compliance with EC Directive 1999/45.</b>	
<b>X<sub>i</sub> Irritant</b>	R36 Irritating to eyes.
<b>Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):</b>	
No other significant adverse effects expected under normal conditions of handling and use.	

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)		
% w/w	Common*/Chemical Name, ELINCS/EINECS & CAS No. of Ingredients	EC 1999/45 Classification
2.5	DDAC*/Didecyltrimethylammonium chloride EINECS : 230-525-2 CAS : 7173-51-5	C : R34 : R22
>2.5 ≤10.0	Alcohol ethoxylate CAS : 68439-46-3 EINECS : N/A	X <sub>n</sub> : R22 R41
> 1.0 ≤2.5	Tetrasodium EDTA*/tetrasodium ethylenediaminetetraacetate EINECS : N/A CAS : 64-02-8	X <sub>n</sub> : R22 R41
≤1.0	Sodium nitrite EINECS : 231-555-9 CAS : 7632-00-0	O : R8 T : R25 N : R50
≤1.0	Propan-2-ol EINECS : 200-661-7 CAS : 67-63-0	F : R11 X <sub>i</sub> : R36 R67
≤0.1	Formaldehyde EINECS : 200-001-8 CAS : 50-00-0	T : R23/24/25 C : R34 : R43 Carc3: R40
≤0.1	Sodium hydroxide EINECS : 215-185-5 CAS : 1310-73-2	C : R35

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<b>4 FIRST-AID MEASURES (SEE ALSO "ADVERSE EFFECTS" IN BOX 2)</b>	
<b>Inhalation</b>	This route of exposure is not anticipated.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
<b>Ingestion (Swallowing)</b>	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.
<b>Emergency Equipment Suggested</b>	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".
<b>Note To Doctor</b>	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

<b>5 FIRE FIGHTING MEASURES</b>	
<b>Fire Extinguisher Type</b>	Use foam or water. Do NOT use carbon dioxide or dry powder extinguishers.
<b>Special Fire-Fighting Procedures</b>	Wear suitable personal protective equipment.
<b>Special Exposure Hazards</b>	Toxic gases such as carbon, disodium and nitrogen oxides may be released in the event of a fire.

<b>6 ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal Precautions (See also box 8)</b>	Wear suitable personal protective equipment.
<b>Environmental Precautions</b>	Keep away from drains, surface and ground water, and soil.
<b>Clean-up Procedure (See also box 13)</b>	Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal.

<b>7 HANDLING AND STORAGE (SEE ALSO BOX 8)</b>	
<b>Handling</b>	No specific handling requirements.
<b>Storage</b>	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.

<b>8 EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>Exposure Standard - Directive EC/98/24 (1<sup>st</sup> IOELV Directive)</b>	Workplace Exposure Limit (WEL) for propan-2-ol is 999 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average) and 1250 mg/m <sup>3</sup> short-term exposure (15 minute reference period). WEL for formaldehyde is 2.5 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average) and 2.5 mg/m <sup>3</sup> short-term exposure (15 minute reference period). WEL for sodium hydroxide 2.0 mg/m <sup>3</sup> short-term exposure (15 minute reference period).
<b>Engineering Controls</b>	Where exposure may occur, engineering controls, rather than the provision of Personal Protective Equipment (PPE) should be employed. On completion of a risk assessment, the following PPE may be required:
<b>Eye Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Hand Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Skin Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Breathing Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Environmental Exposure Controls</b>	Use only in accordance with instructions given. An ecological hazard assessment indicates no specific restrictions on environmental release.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Appearance and Odour</b>	A clear, pale yellow liquid with a minimal odour.		
<b>pH</b>	11 at 20°C	<b>Solubility in Water</b>	Miscible.
<b>Specific Gravity</b>	1.0 at 20°C	<b>Solubility in Other Solvents</b>	Immiscible.
<b>Flash Point</b>	>100°C	<b>Explosive Properties</b>	None known.
<b>Flammability</b>	Non-flammable.	<b>Combustibility</b>	Non-combustible.
<b>Boiling Point/Range</b>	100°C	<b>Oxidising Properties</b>	None known.
<b>Vapour Density</b>	Not determined.	<b>Evaporation Rate</b>	Not determined.
<b>Vapour Pressure</b>	Not determined.	<b>Partition Coefficient</b>	Not applicable.
<b>Viscosity</b>	Not determined.	<b>Other Data</b>	None known.

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## 10 STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
<b>Materials to avoid</b>	Avoid contact with oxidizing agents, reducing agents, acids, alkalis, ammonium salts and amine compounds.
<b>Hazardous Breakdown Products</b>	Toxic gases such as carbon, disodium and nitrogen oxides may be released in the event of a fire.

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

<b>Acute Toxicity</b>	Oral Inhalation Dermal	For DDAC: LD <sub>50</sub> (rat) : 238 mg/kg This route of exposure is not anticipated. For DDAC: LD <sub>50</sub> (rabbit) : 3342 mg/kg
<b>Corrosivity/Irritation</b>	Skin Eyes Respiratory tract	For DDAC: Irritating to rabbit skin (3 min exposure time). Irritating to eyes. Not determined.
<b>Sensitisation</b>	Skin Respiratory	This product does not contain any substances that are classified as sensitising in contact with skin above the lower limits of concentration as specified in EC Directive 1999/45. Contains no known respiratory sensitisers.
<b>Repeat-Dose Toxicity</b>		Product does not contain any components known to have any effects relating to repeated-dose toxicity.
<b>Mutagenicity</b>		Product does not contain any components known to have a mutagenic effect.
<b>Carcinogenicity</b>		Product does not contain any components at concentrations greater than 1% known to have a carcinogenic effect.
<b>Reproductive Toxicity</b>	Fertility Development	Product does not contain any components known to have effects on fertility. Product does not contain any components known to be toxic to the reproductive system.
<b>Other Information</b>		None known.

## 12 ECOLOGICAL INFORMATION

<b>General Information</b>	The sodium nitrite in this product is classified as very toxic to aquatic. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
<b>Ecotoxicity Data</b>	For DDAC: Toxicity to fish: LC <sub>50</sub> , <i>Oncorhynchus mykiss</i> , (96 hrs) : 1.0 mg/L NOEC, <i>Brachydanio rerio</i> , (34 days): 0.032 mg/L Toxicity to daphnia: EC <sub>50</sub> , <i>Daphnia magna</i> , (48 hrs) : 0.094 mg/L NOEC, <i>Daphnia magna</i> , (21 days) : 0.010 mg/L Toxicity to algae: E <sub>b</sub> C <sub>50</sub> , <i>Selenastrum capricornutum</i> , (96 hrs) : 0.026 mg/L
<b>Mobility</b>	Product is miscible in water.
<b>Persistence and Degradability</b>	The surfactant contained in the preparation complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. For DDAC: Stability in water: Abiotic degradation. Hydrolytically stable. Readily biodegradable, Sturm test, 72%, 28 days; Die-Away Test, 28 days, 93.3%; Zahn-Wellens Test, 28 days, 87-94%; OECD Confirmatory Test, 24-70 days, 91%
<b>Bioaccumulative Potential</b>	For DDAC: Does not bioaccumulate. Bioconcentration factor (BCF), <i>Lepomis macrochirus</i> , (46 days): 81.00
<b>Other Adverse Effects</b>	None known.

## 13 DISPOSAL CONSIDERATIONS

<b>Disposal of Waste / Containers</b>	This product and its empty container must be disposed of as controlled waste. Under normal circumstances, waste product / empty containers will be disposed of by Rentokil Initial.
<b>Classification</b> (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC)	<u>Hazard Code</u> : Not classified. <u>Components making the waste hazardous</u> <span style="float: right;"><u>Concentrations (%)</u>:</span> Not required.
<b>Note for Disposal</b>	The best means of disposal of any product is through proper use according to the label. For further advice about disposal in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency. Local rate from anywhere in the UK: +44(0) 870 850 6506

### PR19 DETERGENT BACTERICIDE

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	Not classified.			RIS Code
Transport Category	Not required.	UK Hazchem EAC	Not required.	PSP01
ADR 2009 (International Road) Proper Shipping Name	Class Not required.	ADR HIN	Not required.	Labels  Not required.
Limited Quantity Exemptions	Not required.			
Special Requirements	Packing Group Not required.			
IMDG 2008 (Sea) Proper Shipping Name	Class Not required.	IMDG EMS	Not required.	
Limited Quantity Exemptions	Not required.			Labels  Not required.
Special Requirements	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))	
Safety Phrases	S25: Avoid contact with 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.
Additional Label Phrases	Not required.
Legislation	Labelling is in accordance with UK regulations implementing the EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with other National legislation. Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times. The information given on this Safety Data Sheet (SDS) <b>does not</b> constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK. Other National measures or guidance should be followed where appropriate. This safety data sheet was prepared in accordance with REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

16 Other Information and indication of revisions	
Packaging Information	A white, UN approved, 5 litre, HDPE jerrican with a screw top. Supplied in a 2 x 5 litre UN certified carton.
Revisions	Changes have been made to the content of boxes 01, 02, 03, 04, 05, 08, 09, 10, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 09.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	R8 : Contact with combustible material may cause fire. R11 : Flammable. R22 : Harmful if swallowed. R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed. R25 : Toxic if swallowed. R34 : Causes burns. R35 : Causes severe burns. R36 : Irritating to eyes. R40 : Limited evidence of a carcinogenic effect. R41 : Risk of serious damage to eyes. R43 : May cause sensitisation by skin contact. R50 : Very toxic to aquatic organisms. R67 : Vapours may cause drowsiness and dizziness.

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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.

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