



## Safety Data Sheet

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**REVISION (see box 16)**

Issue : 01 24 : 07 : 2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
<b>Product Name</b>	<b>P70 FLUID</b>
<b>Description</b>	A clear, pale-yellow, perfumed liquid for use in the Calmic system to sanitise the surfaces and traps of toilets.
<b>Company</b>	Rentokil Initial Supplies, Webber Road, Knowsley Industrial Park, Liverpool, L33 7SR. For general enquiries telephone: +44 (0) 151 548 5050. For safety or regulatory enquiries telephone: + 44 (0) 1342 833 022.

2 HAZARD IDENTIFICATION	
<b>Classification (Supply – Use) : In compliance with EC Directive 1999/45.</b>	
<b>C CORROSIVE</b>	R22 Harmful if swallowed. R34 Causes burns.
<b>Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):</b>	
Will cause burns to skin and serious damage to eyes. Harmful if swallowed. Adverse effects on the environment are unlikely, provided that the product is used as intended. 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
>25.0 ≤50.0	DDAC*/ N,N-Didecyl-N,N-dimethyl ammonium chloride EINECS : 230-525-2 CAS : 7173-51-5	C : R34 R22
>10.0 ≤25.0	Isopropanol*/ Propan-2-ol EINECS : 200-661-7 CAS : 67-63-0	F : R11 Xi : R36 R67
>10.0 ≤25.0	Non-ionic surfactant* / alcohol ethoxylate EINECS : Not applicable. CAS : 68131-39-5	N : R50 Xn : R41 R22
> 1.0 ≤2.5	Nitrilotriacetic acid trisodium salt solution. EINECS : 225-768-6 CAS : 5064-31-3	Xi : R36/38

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<b>4 FIRST-AID MEASURES (SEE ALSO “ADVERSE EFFECTS” IN BOX 2)</b>	
<b>Inhalation</b>	Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
<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 carbon dioxide, foam, water, or dry powder extinguishers.
<b>Special Fire-Fighting Procedures</b>	Wear suitable personal protective equipment.
<b>Special Exposure Hazards</b>	Heating or fire can release toxic gas.

<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 Storage</b>	Avoid contact with skin. Wear suitable personal protective clothing, gloves and eyes/ face protection. 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).
<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>	Suitable eye protection such as goggles.
<b>Hand Protection</b>	Suitable hand protection such as gloves.
<b>Skin Protection</b>	Suitable skin protection such as coveralls.
<b>Breathing Protection</b>	None necessary during normal handling and use.
<b>Environmental Exposure Controls</b>	Use only in accordance with instructions given.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Appearance and Odour</b>	A clear, pale yellow perfumed liquid.		
<b>pH</b>	8.93	<b>Solubility in Water</b>	Miscible.
<b>Specific Gravity</b>	0.9 at 20°C	<b>Solubility in Other Solvents</b>	Not determined.
<b>Flash Point</b>	28°C (closed cup).	<b>Explosive Properties</b>	For DDAC, Propan-2-ol and water: UEL: max. 12.7% , LEL: min. 2%
<b>Flammability</b>	Non-flammable.	<b>Combustibility</b>	Non-combustible.
<b>Boiling Point/Range</b>	Starts at ca. 80°C	<b>Oxidising Properties</b>	None known.
<b>Vapour Density</b>	Not applicable.	<b>Evaporation Rate</b>	Not determined.
<b>Vapour Pressure</b>	Not applicable.	<b>Partition Coefficient</b>	Not applicable.
<b>Viscosity</b>	Not determined.	<b>Other Data</b>	None known.

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<b>10 STABILITY AND REACTIVITY</b>	
<b>Conditions to avoid</b>	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
<b>Materials to avoid</b>	None known.
<b>Hazardous Breakdown Products</b>	Heating or fire can release toxic gas.



<b>11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)</b>		
<b>Acute Toxicity</b>	Oral Inhalation Dermal	For DDAC: LD <sub>50</sub> (rat): 238 mg/kg. Not determined. For DDAC: LD <sub>50</sub> (rat): 3342 mg/kg.
<b>Corrosivity/Irritation</b>	Skin Eyes Respiratory tract	Causes burns. Risk of serious damage to eyes. Not determined.
<b>Sensitisation</b>	Skin Respiratory	Contains no known skin sensitisers. 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 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.

<b>12 ECOLOGICAL INFORMATION</b>	
<b>General Information</b>	The alcohol ethoxylate in this product is classified as very toxic to aquatic organisms and the fragrance is classified as harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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> (96h): 1 mg/l ( <i>rainbow trout</i> ) NOEC (21d): 0.041 mg/l ( <i>rainbow trout</i> ) Toxicity to Daphnia: EC <sub>50</sub> (48h): 0.094 mg/l ( <i>daphnia magna</i> ) NOEC (21d): 0.010 mg/l ( <i>daphnia magna</i> ) Toxicity to Algae: EC <sub>50</sub> (96h): 0.026 mg/l ( <i>selenastrum sp.</i> ) Toxicity to Bacteria: C <sub>10</sub> (16h): 0.13 mg/l ( <i>pseudomonas sp.</i> ) EC50 (3h): 11 mg/l ( <i>activated sludge</i> ) Toxicity to soil dwelling organisms NOEC (14d): ≥1000 mg/kg (Earthworm)
<b>Mobility</b>	Product is miscible in water, so may be transported considerable distances.
<b>Persistence and Degradability</b>	The surfactants contained in the preparation comply 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: Biodegradability: OECD Confirmatory Test: 91% (24 – 70 days). Zahn-Wellens Test: 87 – 94 % (28 days) Die-Away Test: 90 % (28 days) CO <sub>2</sub> Evolution: 81 % (28 days)
<b>Bioaccumulative Potential</b>	For DDAC: Does not bioaccumulate. Bioconcentration factor (BCF), 46 d: 81,00 (Bluegill sunfish).
<b>Other Adverse Effects</b>	Stability in water :Abiotic degradation and Hydrolytically stable.

<b>13 DISPOSAL CONSIDERATIONS</b>	
<b>Disposal of Waste / Containers</b>	Under normal circumstances, waste / 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> : H3B: Flammable, H5: Harmful, H8: Corrosive. <u>Components making the waste hazardous</u> <u>Concentrations (%)</u> : DDAC >10.0 ≤25.0 Non ionic surfactant >10.0 ≤25.0 Propan-2-ol >10.0 ≤25.0
<b>Note for Disposal</b>	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.

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**14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)**

<b>UN No.</b>	UN3267	<b>Tremcard Reference No.</b>	CEFIC TEC (R)- 80GC7-II+III	<b>RIS Code</b>
<b>Transport Category</b>	2	<b>UK Hazchem EAC</b>	2X	CS10524
<b>ADR 2005 (International Road)</b>	<b>Class 8</b>	<b>ADR HIN</b>	80	<b>Labels</b>
<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS N, N-DIDECYL- N, N-DIMETHYL AMMONIUM CHLORIDE).			
<b>Limited Quantity Exemptions</b>	Maximum quantity per inner receptacle is 1 kg. Maximum quantity per outer package is 30kg. Combination packs only.			
<b>Special Requirements</b>	Not required.		<b>Packing Group II</b>	
<b>IMDG 2004 (Sea)</b>	<b>Class 8</b>	<b>IMDG EMS</b>	F-A, S-B	
<b>Proper Shipping Name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS N, N-DIDECYL- N, N-DIMETHYL AMMONIUM CHLORIDE).			
<b>Limited Quantity Exemptions</b>	Maximum quantity per inner receptacle is 1 kg. Maximum quantity per outer package is 30kg. Combination packs only.			
<b>Special Requirements</b>	Not required.		<b>Packing Group II</b>	
<b>Note for Transport</b>	Local, State or National requirements may apply to the carriage of this product.			

**15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))**

<b>Safety Phrases</b>	<p>S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S35: This material and its container must be disposed of in a safe way.</p> <p>S36/37/39: Wear suitable protective clothing, gloves and eyes/face protection.</p> <p>S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).</p>
<b>Additional Label Phrases</b>	Not required.
<b>Legislation</b>	<p>Labelling is in accordance with UK regulations implementing the EC Directive 1999/45.</p> <p>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.</p> <p>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.</p>

**16 Other Information and indication of revisions**

<b>Packaging Information</b>	2 x 5 litre plastic jerrican, with a screw top. Supplied in outer cardboard box.
<b>Revisions</b>	Not applicable.
<b>Risk phrase text</b> (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R11 : Highly flammable.</p> <p>R22 : Harmful if swallowed.</p> <p>R34 : Causes burns.</p> <p>R36 : Irritating to eyes.</p> <p>R36/38 : Irritating to eyes and skin.</p> <p>R41 : Risk of serious damage to eyes.</p> <p>R50 : Very toxic to aquatic organisms.</p> <p>R52,53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R67 : Vapours may cause drowsiness and dizziness.</p>

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

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Telephone: +44 (0) 1342 833022 Fax: +44 (0) 1342 836180 Web: [www.ri-research.com](http://www.ri-research.com)