

250 89CO

COMMITTEE ON CHEMICALS AND MATERIALS OF CONSTRUCTION
FOR USE IN PUBLIC WATER SUPPLY AND SWIMMING POOLS

FIFTEENTH STATEMENT

MARCH 1989

SANITATION (IRC)

Issued by

Department of the Environment
Drinking Water Division
Romney House
43 Marsham Street
London SW1P 3PY

Enquiries: Mr O D Hydes, Room A4.39, tel 01 276 8213

250-89CO-2076

WT16P785-6RH4

COMMITTEE ON CHEMICALS AND MATERIALS OF CONSTRUCTION
FOR USE IN PUBLIC WATER SUPPLY AND SWIMMING POOLS

FIFTEENTH STATEMENT

MARCH 1989

LIBRARY, INTERNATIONAL REFERENCE
CENTRE FOR COMMUNITY WATER SUPPLY
AND SANITATION (I.C.C.S.)
P.O. BOX 301, 2300 AD The Hague
Tel (070) 214911 ext 141/142

RN: ISN 2076
LO: 250 8900

Issued by

Department of the Environment
Drinking Water Division
Romney House
43 Marsham Street
LONDON SW1P 3PY

Enquiries to Secretary Mr O D Hydes, Room A439, tel 01-276-8213

COMMITTEE ON CHEMICALS AND MATERIALS OF CONSTRUCTION
FOR USE IN PUBLIC WATER SUPPLY AND SWIMMING POOLS

FIFTEENTH STATEMENT

CONTENTS	PAGES
Contents	1-3
Terms of Reference	4
The Fifteenth Statement	4
Explanatory Note	5
Materials of Construction	5-6
Current Membership of the Committee	7
Amendments since the Fourteenth Statement	8
Additions	8
Deletions	10-11
Appendix I	12-17

Complete list of products found by the Committee to be unobjectionable on health grounds for the treatment of water for public supply

(1) Coagulants and coagulant aids	12-14
A. Products based on polyacrylamide, or acrylamide/ acrylate copolymers	12-14
B. Products based on polyacrylic acid	14
C. Products based on starch	14
D. Products based on sodium alginate	14
E. Products based on tannin	15
F. Products based on quaternary ammonium polyelectrolyte	15
G. Products based on polyamine	15
H. Products based on aluminium	15
I. Products based on polyquaternary resin	16
(2) Other treatment chemicals	16
A. Stabilising agents and corrosion preventatives	16
B. Chlorinating agent	16-17
C. Disinfectant and taste and odour control agents	17
D. Evaporation control agents	17
E. Adsorbents	17
F. Clarifying agents	17

Appendix II

Complete list of products found by the Committee to be unobjectionable on health grounds for the disinfection, disinfection and cleaning of water works apparatus including distribution systems	18-19
(1) Pesticides	18
(2) Disinfectants	18
(3) Cleaning agent for ion exchange resin beds	18
(4) Cleaning agent for reservoirs	19

Appendix III

Complete list of products found by the Committee to be unobjectionable on health grounds for use as additives in sea water distillation plants and reverse osmosis plants used to provide potable water

Products based on polyacrylic acid, polyacrylamide, polymaleic acid and copolymers of acrylic acid, acrylamide, maleic acid and other related polymers, organophosphonates and other organic and inorganic substances	20-23
(1) Sea water distillation plants	20
(2) Reverse osmosis plants	22-23

Appendix IV

Complete list of materials found by the Committee to be unobjectionable on health grounds when used in contact with water for use in public water supply and swimming pools	24-26
(1) Materials of construction	24
A. Polyethylene pipe	24
B. Acrylonitrile - butadiene - styrene polymers	24
C. Cementitious and associated products	24
D. Filled acetal copolymer for domestic water fittings	25
(2) Protective coatings	25
(3) Lubricants and sealing compounds	25
(4) Gases used to trace leaks in water mains	25
(5) Colour codes for ends of asbestos cement pipes	25
(6) Chemicals for flow meter calibration	26

Appendix V

Complete list of products found by the Committee to be unobjectionable on health grounds for the treatment of water of swimming pools.	27-29
(1) Disinfectants	27
A. Products based on chloroisocyanurates	27
B. Other products	27-28
(2) Algicides	28
(3) Flocculating and clarifying agents	28-29
(4) Miscellaneous products	29

Appendix VI

Complete list of chemicals and products commonly used in the treatment of water which are considered by the Committee to be unobjectionable on health grounds for the treatment of water for the purposes indicated	30-32
(1) Chemicals	30
(2) Products	30
A. For use in public water supply	31
B. For use in swimming pools	32
C. For use in sea water distillation plants	32
Manufacturers/Suppliers Names and Addresses	33-37

TERMS OF REFERENCE

1. The Committee, set up in 1966 by the then Minister of Housing and Local Government, currently has the following terms of reference:-

"To assess the possible hazards to the public health of chemicals, materials of construction and protective coatings proposed for the treatment and provision of water for public supply and also for swimming pools, and to consider the effect of those uses on the environment generally, and to advise on the conditions ensuring their safety in use."

2. The current policy of the Committee is to consider only voluntary applications for approval of products, as being unobjectionable on health grounds for the purposes supplied, which are made by manufacturers and suppliers. At present the Committee's approvals are advisory and have no statutory basis.

3. The new Water Bill published in November 1988 proposes that the Secretary of State should have a power to make regulations with respect to the use by water undertakers of such processes and substances, and of products that contain or are made with such substances or materials, as he considers might affect the quality of any water supplied. Any regulations could approve or forbid the use of processes, substances or products. The Committee and its method of operation is being reviewed in the light of this proposal.

THE FIFTEENTH STATEMENT

4. Appendices I to V of this statement give complete lists of those products that the Committee considers, subject to certain conditions, to be unobjectionable on health grounds for the treatment of or to be in contact with water for the purposes indicated. The Committee have not commented on the technical merits of any of these products and their inclusion in these lists must not be taken to imply any recommendation as to their effectiveness in use.

5. Appendix VI gives a list of "traditional" or commonly used and accepted chemicals which the Committee believes present no hazard to health when used for the treatment of water provided they are used in accordance with the manufacturers' instructions and at the normally accepted concentrations and points of application and, in the case of water for public supply, the water so treated meets the requirements of the EC Directive relating to the Quality of Water intended for Human Consumption (80/778/EEC). Products which meet these requirements are also listed in Appendix VI.

EXPLANATORY NOTE

6. The Committee issues an Explanatory Note as a guide for manufacturers and suppliers who wish to apply to the Committee for approval of their products. It outlines the background to the Committee, its functions and policy and details the kind of information which the Committee requires to enable it to consider an application for approval. The Explanatory Note is available from the Secretary of the Committee.

MATERIALS OF CONSTRUCTION AND THE WATER FITTINGS BYELAWS SCHEME

7. There is some confusion in the water industry about the roles of the Committee and the United Kingdom Water Fittings Byelaws Scheme (WFBS), operated by the Water Research Centre, with respect to the approval of materials of construction.

8. The Committee has non-statutory responsibility for materials used at water treatment works and in the water undertaker's part of the distribution system. It is concerned primarily with those materials with major use, such as pipes, constructional concretes and pipe and reservoir linings, where there can be a large surface area in contact with water.

9. The WFBS is a statutory scheme operated under the Water Act 1973 and its objectives are to make provision throughout the United Kingdom for the assessment and testing of water fittings to ascertain whether they comply with regulations and byelaws for preventing waste, undue consumption, misuse or contamination of water. The scheme is thus responsible for water fittings, which will include materials, used on consumer's premises.

10. Clearly some materials and fittings may be used on both the consumer's and water undertaker's side of the curtilage. Liaison arrangements, partly through a common member, ensure that the Committee and the Scheme receive common advice on materials and their effect on water quality.

CURRENT MEMBERSHIP OF THE COMMITTEE

Chairman

Mr A H Goodman
BSc, CChem, MRSC, MIWEM
Department of the Environment

Members

Dr J S Colbourne
BSc, PLD, FIMLS
United Kingdom Water Fittings
Byelaws Scheme

Mr I R Monteath
BSc, CEng, MICE, MIWEM
Scottish Development Department

Dr J W Ridgway
BSc, PhD, MIWEM
Water Research Centre

Mr J E Saunders
FRSC, CChem, MIWEM
Welsh Office

Dr M Waring
MA, MB, FRCS
Department of Health

Secretary

Mr O D Hydes
BSc, CChem, MRSC
Department of the Environment

Former Members

The following members retired from the Committee since the issue of the Fourteenth Statement in December 1984:

Dr S M Cromwell
Department of Health

Dr A L M Fingret
United Kingdom Water Fittings
Byelaws Scheme

Dr G K Matthew
Department of Health

Mr A S R Mutch
Welsh Office

Mr N G Semple
Scottish Development Department

Dr E Windle-Taylor
Consultant

The Committee thanks these members for their valuable service.

AMENDMENTS

Since the Fourteenth Statement was published the following changes have been made to the list (there have also been some alterations in the numbering/lettering of some of the appendices and some changes in manufacturers' names and addresses):

ADDITIONS

APPENDIX I(1)A	CALGON	R150
	DUOFLOCS	86, 87, 88, 89, 90, 91, 92, 94, 95, 96, 97, 98, 99, 100, 101
	FLOCAIDS	110, 111, 211, 212, 213, 214, 215, 310, 311, 312, 313, 314, 600, 601, 602
	GOLKEMS	A219, A225, A228, A230, N184
	HATASPERSES	300, 301
	KLAR-AIDS	4171, 4173, 4174
	LAPOFLOC SERIES 8000	N50 WG, N100 WG, N150 WG, N200 WG, N250 WG, N300 WG, N350 WG, N400 WG, X50 WG, K107 WG, K115 WG, K125 WG, K140 WG, K190 WG, K240 WG
	MAGNAFLOC	LT25S
	PRAESTOLS	311 TR, 321 TR, 2515 TR, 2530 TR, 2540 TR
	PROSEDIMS	AS11, AS21, AS22, AS23, ASP6, NS5 Q-100, R-100, R-300, R-400
	ROHAFLOCS	F050, SF170, SF380, SF580
	SUPERFLOC	A95
APPENDIX I(1)D	DAI PAHL FLOCCULANT	
APPENDIX I(1)E	KLAR-AID	4000
APPENDIX I(1)G	HATASPERSE	305
APPENDIX I(1)H	LAPOFLOC	1000, 2000
APPENDIX I(1)I	HATASPERSE	307
	KEMAZUR	4553
	ULTRION	8109
APPENDIX I(2)A	MAGNATREAT	P03
APPENDIX I(2)F	CLARIFLOC	
	CLARIFLOCS	80, 100
APPENDIX II(2)	BRICHLOR PLUS CHLORINE GRANULES	
	BRICHLOR CHLORINE TABLETS	
	FLEXITABS CHLORINE TABLETS	

APPENDIX III(1)	A-152	
	ACRIFLOWS	A, G
	ALBRIVAPS	A, AF1, AF7, B, DSB, DSB-1, DSB-S, L, SD, SD1, (Witton Chemical Ltd)
	ALBRIVAPS	DSB-1, DSB-S, L, SD, SD1, (Albright and Wilson Ltd)
	AQUARITE	P30
	BELGARD	EV 2000
	BETZ	415, 419, ANTIFOAM EVAP AF, CORROGEN, SULFITE 3, SULFITE FG
	CORREXITS	2928, 2929, 2930
	C-TREAT 6	
	D5401, D5402, D5403, D8062	
	EVAPORATOR TREATMENT 2343	
	HATAVAP	
	NALCO	D-4247
	NALFLOCS	9-324, D-4247
	POC	HS 2020
	POLYCHECKS	90, 5200
	PRODECOR	ST 200
	QUALTREATS	501, 501A
APPENDIX III(2)	AQUAFEEDS	AF-100, AF-600, AF-615, AF-625, AF-635
	BETZ	415, 419, 604
	CYANAMER	P80
	D8062	
	KINRO	1020
	NALCO	D-4247
	NALFLOC	D-4247
	POLYCHECK	80
APPENDIX IV(1)A	DGDS	
	FINATHENE	3802-BLUE
	MARLEX	3802 BLUE XC 901, B BLACK, 5400 BLACK
APPENDIX IV(1)C	MICROPOZ	
	POZAMENT MAINLINE	
APPENDIX IV(2)	NITOCOTE, NITOCOTE	PL2 428
	NITOLINE	PL2
	MACROPOLS	M1000, M2000
APPENDIX V(1)A	ACL 80 PLUS	
	BRISWIM FAST DISSOLVING CHLORIDE TABLETS	
	FLEXITABS CHLORINE TABLETS	
	CRYSTALENE	

APPENDIX V(2)	A-580	
	ALGICIDES	5322, DS 5342
	BRISWIM ALGICIDE LIQUID	
	GLOKILL	PQ
	HATACIDE	28
	HOWES OLYMPIC ALGAECIDE	
	KINTROLS	524, 580
	KLEENPOOL ALGICIDE	
APPENDIX V(3)	FI-CLOR CLEANSE	
	HICAT-1	
APPENDIX V (4)	POOL CURE	
APPENDIX VI(1)	CHLORINE DIOXIDE	
	SODIUM BISULPHITE	
	SODIUM CHLORITE	
	SODIUM METABISULPHITE	
APPENDIX VI(2)A	A-112	
	ALKATREATS	2, 20
	BERKBENT	CE
	CHEMISOL	325
	CHLOROS	
	CILLIT	55 HARD
	ECONOFLOC	7
	HIGHFLOC	6, 7, 11, 71, 72, 73, 74, 75
	FLOGARDS	200, 486, 558, 860, 5431, 5929
	IMPULSANS	H1, H2, H3, H4, HE, CS
	PWT POTABLE WATER TREAT	
	QUANTOPHOS H	
	SP 2290	
APPENDIX VI(2)B	BRISWIMS CHLORINE NEUTRALISER, IRON/CALCIUM SEQUESTANT	
	CHEMISOL	325
	CHLOROS	
	CHLORYTE	
	PHOSTREAT PWT	

DELETIONS (Products no longer available or changed in name).

APPENDIX 1(1)A	AQUAFLOC	4270
	FLOCMISERS	TS 10, 20, 21, 42, 73, 100, TS 110, 130, 150
	MAGNAFLOCS	LT21, LT28, LT29
	TRW90AP, TRW91AP, TRW93AP, TRW95AP, TRW900P, TRW91CP, TRW80NP	
APPENDIX 1(1)B	BUFLOC	30/TAPA
	OAKITE CLARIFIER SF3	
APPENDIX 1(1)G	ARICAT	2000
	TR SPL 1	
APPENDIX 1(1)I	ARICATS	2100, 2200
	TR SPL 3, TR SPL 7	
APPENDIX 1(2)C	AQUABON, CARNEBON	
APPENDIX 1(2)E	ANTHRASORB (granular)	
	ANTHRASORB (powder)	
APPENDIX II(1)	ACL 85	
APPENDIX III(1)	DURAVAP	
	FLOCON ANTISCALANTS 247N, 280	
	HATASPERSE	17
APPENDIX IV(2)	NITOCOTES	PL2, PL2 Fast Set, PL2 Green
	DYNAPOL	1500
APPENDIX V(1)A	ACL	85
	DUOCHLORINE DUOFIX	
APPENDIX V(2)	ALGICIDE	DS 5432
	FI-CLOR CLEANSE	
	FINALGAE	
APPENDIX VI(2)A	FERRIGRANULE	
	HANFLOC	
APPENDIX VI(2)B	ALIFAT-FLUSSIG, KORREKTA-H, TRICHLORIN-K	
	SODIUM BISULPHATE	

APPENDIX 1

COMPLETE LIST OF PRODUCTS FOUND BY THE COMMITTEE TO BE UNOBJECTIONABLE ON HEALTH GROUNDS FOR THE TREATMENT OF WATER FOR PUBLIC SUPPLY

I(1) COAGULANTS AND COAGULANT AIDS

I(1)A PRODUCTS BASED ON POLYACRYLAMIDE OR ACRYLAMIDE/ACRYLATE COPOLYMERS

For these products the following conditions apply:

i. No batch must contain more than 0.050% of free acrylamide monomer based on the active polymer content. This condition applies until 31 August 1989. From 1 September 1989 the maximum permitted content of free acrylamide monomer in these products will be reduced from 0.050% to 0.025%.

ii. The dose used must average no more than 0.25 mg/l and never exceed 0.50 mg/l of the active polymer.

iii. An upper limit for the content of free acrylamide monomer must be stated by the supplier for every batch.

iv. The method to be used for the analysis for free acrylamide monomer is that published in the series Methods for the Examination of Waters and Associated Materials entitled 'Determination of Acrylamide Monomer in Waters and Polymers 1987' (HMSO, 1988).

ACCOFLOCS A100 PWG, A110 PWG, A120 PWG, Cyanamid of Great Britain Ltd
A130 PWG, A150 PWG, N100 PWG

ACCURAC 620

SUPERFLOCS 992, A95 (PWG), A100 (PWG),
A110 (PWG), A115 (PWG),
A120 (PWG), A130 (PWG),
A137 (PWG), A150 (PWG),
C100 (PWG), C110 (PWG),
C420 (PWG), N100 (PWG),
N300 (PWG)

AH 912 PWG, AN 905 PWG, SNF Floerger
AN 910 PWG, AN 913 PWG,
AN 923 PWG, AN 934 PWG,
AN 945 PWG, AN 956 PWG,
FA 920H PWG, FO 9107 PWG,
FO 9115 PWG, FO 9125 PWG,
FO 9140 PWG, FO 9190 PWG,
FO 9240 PWG

ALBRIFLOCS A22, A41, A58, N12, N36 Albright and Wilson Ltd

AQUAFLOCS 4171, 4173, 4174 Grace Dearborn Ltd

KLAR-AIDS 4171, 4173, 4174

CALGON	R150	Chemviron Speciality Chemicals SA/NV
POLYMERS	233, 243, 245 Q-100, R-100, R-300, R-400	
CHEMIFLOCS	220P, 405P, 410P, 412P, 413P, 423P, 434P, 445P, 456P, 6107P, 6115P, 6125P, 6140P, 6190P	Chemifloc Ltd
CLEARFLOCS	C10A, C11A, C12A	Clearway Water Treatment
DECAPOLS	A11P, A30P, A33P, A36P, A39P, A45P, C10P, C11P, C300P, C330P, N10P, N11P, N50P, N100P	Fospur Ltd
FLOCBELS	F2, F3, F5, F6, F7, F8	
DUOFLOCS	86, 87, 88, 89, 90, 91, 92, 94, 95, 96, 97, 98, 99, 100, 101	Duolite International SA
FLOCAIDS	110, 111, 211, 212, 213, 214, 215, 310, 311, 312, 313, 314 600, 601, 602	National Starch and Chemical Ltd
FLOCMISERS	50,	Watermiser Ltd
GOLKEMS	101, 124, A155, A165, A169, A170, A171, A219, A225, A228, A230, C121, C133, C146, C164, N184	Goldcrest Chemicals Ltd
PURIFLOCS	N17, A22, A23, A24, A28, A29, A69, A81, N127	
HATASPERSES	300, 301	Houseman (Burnham) Ltd
HERCOFLOCS	812, 815, 818, 821, 839	Hercules Powder Co Ltd
LAPOFLOC SERIES 8000	N50WG, N100WG, N150WG, N200WG, N250WG, N300WG, N350WG, N400WG, X50WG, K107WG, K115WG, K125WG, K140WG, K190WG, K240WG	Laporte Inorganics
MAGNAFLOCS	LT20, LT22, LT22S, LT24, LT25, LT25S, LT26, LT27	Allied Colloids Ltd
MILLFLOCS	A25 PWG, A30 PWG, A40 PWG, A50 PWG, A70 PWG, A80 PWG, A90 PWG, C12 PWG, C15 PWG, C20 PWG, C25 PWG, C30 PWG, C40 PWG, N10 PWG, N20 PWG	Crosmill Flocculants Ltd
NALFLOCS	A378, A3700, A3701, A3720, A3721, A3730, A3731	Nalfloc Ltd

PRAESTOLS	311TR, 321TR, 2515TR, 2530TR, 2540TR	Chemische Fabrik Stockhausen GmbH
PROSEDIMS	AS11, AS21, AS22, AS23, ASP6, ASP20, ASP25, ASP27, ASP32, ASP34, ASP37, ASP40, ASP45, CSP7, CSP15, CSP40, CSP50, NS5	Degremont Laing Ltd
ROHAFLOCS	F050, SF170, SF380, SF580	Cornelius Chemical Co. Ltd
SANPOLYS	305 (PWG), A510 (PWG), A520 (PWG), N500 (PWG)	Mitsubishi Corporation
SEVFLOCS	A10, A11, A12, A13, N10	Severn Water Services
TILCON FLOCCULANTS	A1, A3, N1	Tilcon Water Treatment Services
TOL FLOC	TFL 1761	Petrolite Ltd
WATERFLOCS	312, 314, 316, 323, 325, 421, 422, 622, 623, 624, 625, 626, 921	Water Management Chemicals Ltd

I(1)B PRODUCTS BASED ON POLYACRYLIC ACID

Currently there are no approved products available in this category.

I(1)C PRODUCTS BASED ON STARCH

For these products the following conditions apply:

i. The dose used must not exceed 3 mg/l.

FOSTARCHS 4P, 5P, 6P

Fospur Ltd

WISPROFLOC P

Tunnel Avebe Starches Ltd

ii. The dose used must not exceed 5 mg/l.

GOLKEM NS2

Goldcrest Chemicals Ltd

MAGNAFLOC WS612

Allied Colloids Ltd

WISPROFLOC N

Tunnel Avebe Starches Ltd

I(1)D PRODUCTS BASED ON SODIUM ALGINATE

For these products the following conditions apply:

i. The dose used must not exceed 1 mg/l.

MANUGEL GMB

Kelco/AIL

ii. The dose used must not exceed 3 mg/l.

DAI PAHL FLOCCULANT

LS Raw Materials Ltd

I(1)E PRODUCTS BASED ON TANNIN

For these products the following conditions apply:

The dose used must not exceed 10 mg/l of active material.

FLOCCOTAN A) Grace Dearborn Ltd
KLARAID 4000) 35% active material

I(1)F PRODUCTS BASED ON QUATERNARY AMMONIUM POLYELECTROLYTE

For these products the following condition applies:

The dose used must not exceed 10 mg/l of the active polymer.

CATFLOC Chemviron Speciality
Chemicals SA/NV

CATFLOCS A, C, R, S, T, T-1, 21, 121
M-502, M-503, M-506

SUPERFLOCS C585, C587, C589 Cyanamid of Great Britain
Ltd

I(1)G PRODUCTS BASED ON POLYAMINE

For these products the following conditions apply:

i. The dose used must not exceed 10 mg/l.

CLEARFLOC C21C Clearway Water Treatment

DECAPOL C100P Fospur Ltd

SUPERFLOC C521 Cyanamid of Great Britain
Ltd

TOL FLOTE FR1889 Petrolite Ltd

ii. The dose used must not exceed 33 mg/l.

HATASPERSE 305 Houseman (Burnham) Ltd

I(1)H PRODUCTS BASED ON ALUMINIUM

For these products the following conditions apply:

i. The dose used must not exceed 200 mg/l.

EKOFLOCK Allied Colloids Ltd

LAPOFLOC PAC, PAC Laporte Industries Ltd

PAC Alumina Co Ltd

ii. The dose used must not exceed 100 mg/l.

LAPOFLOC 1000, 2000 Laporte Inorganics

I(1)I PRODUCTS BASED ON POLYQUATERNARY RESIN

For these products the following conditions apply:

i. The dose used must not exceed 10 mg/l.

BETZ POLYMERS 1190, 1290	Betz Ltd
BUBOND 65, HICAT-1	Buckman Laboratories SA
CLEARFLOC C77C	Clearway Water Treatment
DECAPOLS C101P, C102P	Fospur Ltd
HATAFLOC 626	Houseman (Burnham) Ltd
GOLKEM CL 118	Goldcrest Chemicals Ltd
KEMAZUR 4553	Degremont Laing Ltd
MAGNAFLOCS LT31, LT33	Allied Colloids Ltd
SUPERFLOCS C573, C577	Cyanamid of Great Britain Ltd

ii. The dose used must not exceed 33 mg/l.

HATASPERSE 307	Houseman (Burnham) Ltd
----------------	------------------------

iii. The dose used must not exceed 150 mg/l.

ULTRION 8109	Nalfloc Ltd
--------------	-------------

I(2) OTHER TREATMENT CHEMICALS

I(2)A STABILISING AGENTS AND CORROSION PREVENTATIVES

For these products the following condition applies:

The dose used must not exceed 20 mg/l.

AQUARITES TG, TG10	Albright and Wilson Ltd
KORTOLAT A550P	Fospur Ltd
MAGNATREAT P03	Magnachem Ltd
NALCO D4512	Nalco Ltd

I(2)B CHLORINATING AGENT

For this product the following condition applies;

The arrangements for dissolving the tablets and dosing the resulting solution must be such that the dose used does not exceed 0.5 mg/l chlorine.

I(2)C DISINFECTANTS AND TASTE AND ODOUR CONTROL AGENTS

For these products the following condition applies:

The combined concentration of chlorine dioxide, chlorite and chlorate should not exceed 0.5 mg/l as chlorine dioxide in the water entering supply.

FOSCLORS 202P, 205P, 206P, 212P, 216P, Fospur Ltd
220P, BELLAZON

I(2)D EVAPORATION CONTROL AGENTS

For these products the following conditions apply:

i. The daily dose rate to the reservoir must not exceed 900 ml per 1,000 m² of surface area (3 fl ozs per 1,000 sq ft).

VAPORIN Wilkinson and Simpson Ltd

ii. The daily dose rate to the reservoir does not exceed 30 g per 1,000 m² of surface area (1 oz per 10,000 sq ft).

I(2)E SOLID VAPORIN Wilkinson and Simpson Ltd

ADSORBENTS

For these products the following condition applies:

The filter bed containing the product must be adequately backwashed to remove readily leachable materials before connection to the supply.

FILTRASORBES 100, 200, 300, 400 Chemviron Speciality
Chemicals SA/NV

I(2)F CLARIFYING AGENTS

For these products the following condition applies:

The dose used must not exceed 2,000 mg/l.

CLARIFLOC Blue Circle Industries PLC
CLARIFLOCS 80, 100

APPENDIX II

COMPLETE LIST OF PRODUCTS FOUND BY THE COMMITTEE TO BE UNOBJECTIONABLE ON HEALTH GROUNDS FOR THE DISINFESTATION, DISINFECTION AND CLEANING OF WATERWORKS APPARATUS INCLUDING DISTRIBUTION SYSTEMS

II(1) PESTICIDES

For these products the following conditions apply:

- i. The average dose used must not exceed approximately 10 ug/l permethrin and the maximum dose used never exceed 20 ug/l permethrin.
- ii. The length of time the permethrin is dosed should be kept to a minimum and never exceed 7 days.
- iii. Adequate attention is given to the protection of the interests of those water uses likely to be sensitive to the presence of permethrin eg aquaria, renal dialysis, sugar feed solutions for bees etc.
- iv. The permethrin concentration must not exceed 10 mg/l in 95% of samples in any watercourse receiving flushing water either directly or via a sewage works.

PERMASECT	Mitchell Cotts and Co Ltd
WELLCOME PERMETHRIN IN ALCOHOL CONCENTRATE	Wellcome Foundation Ltd

II(2) DISINFECTANTS

For these products the following condition applies:

The dose used should be such that the final concentration in the water should not normally exceed 100 mg/l of free available chlorine.

ACL 56, ACL 60, ACL 90 PLUS	Monsanto Chemicals plc
BRICHLOR PLUS CHLORINE GRANULES BRICHLOR CHLORINE TABLETS FLEXITABS CHLORINE TABLETS	Robert R Bartlett and Sons Ltd
DEARBORN 730	Grace Dearborn Ltd
FI-CLORS 60S, 91, CLEARON FI-TABS R/D, S/D	Chlor Chem Ltd
INSTACHLOR	Wilkinson and Simpson Ltd

II(3) CLEANING AGENT FOR ION EXCHANGE RESIN BEDS

This product must be used in accordance with the manufacturer's instructions.

RESINTREAT	Houseman (Burnham) Ltd
------------	------------------------

II(4)

CLEANING AGENT FOR RESERVOIRS

These products must be used in accordance with the manufacturer's instructions.

CARELA-BIO-PLUS
CARELA-B10-PLUS-FORTE

Lambson Ltd

APPENDIX III

COMPLETE LIST OF PRODUCTS FOUND BY THE COMMITTEE TO BE UNOBJECTIONABLE ON HEALTH GROUNDS FOR USE AS ADDITIVES IN SEA WATER DISTILLATION PLANTS AND REVERSE OSMOSIS PLANTS USED TO PROVIDE POTABLE WATER

Products based on polyacrylic acid, polyacrylamide, polymaleic acid and copolymers of acrylic acid, acrylamide and maleic acid and other related polymers, organophosphonates, and other organic and inorganic substances.

For these products the following conditions apply, where appropriate:

- i. No batch of the product must contain more than 0.05% of free acrylamide monomer based on the active polymer content.
- ii. No batch of the product must contain more than 1.25% of free acrylic acid monomer based on the active polymer content.
- iii. The dose used in the feed water must not exceed the stated concentration (in brackets) of the product as supplied.

III(1) The following products are approved for sea water distillation plants:-

A-152	(25 mg/l)	Atlantic Water Technology Ltd
AC-1000	(30 mg/l)	Drexel Equipment (UK) Ltd
ACRIFLOWS	A (10 mg/l), AF1 (2 mg/l), AF7 (10 mg/l) B (30 mg/l), DSB (15 mg/l), G (30 mg/l)	Witton Chemical Co Ltd
ALBRIVAPS	A (10 mg/l), AF1 (2 mg/l), AF7 (10 mg/l), B (30 mg/l), DSB (15 mg/l), DSB1 (10 mg/l), DSB-S (37.5 mg/l), G (30 mg/l), L (20 mg/l), SD (40 mg/l), SD1 (25 mg/l)	
AQUARITE	P30 (40 mg/l)	
ALBRIVAPS	A (10 mg/l), AF1 (2 mg/l), AF7 (10 mg/l), AF10 (2 mg/l), AF12 (3 mg/l), AF14 (5 mg/l), B (30 mg/l), C1 (10 mg/l), C110 (25 mg/l), D110 (100 mg/l), DSB (15 mg/l), DSB1 (10 mg/l), DSB-S (37.5 mg/l), G (30 mg/l), L (20 mg/l), P25 (50 mg/l), P40 (25 mg/l), SD (40 mg/l), SD1 (25 mg/l)	Albright and Wilson Ltd
AQUARITE	P30 (40 mg/l)	
AMERET	(100 mg/l),	Drew Chemicals Ltd
AMEROYAL	(100 mg/l)	

AQUAFLOCS	4171 (5 mg/l), 4173 (5 mg/l) 4174 (5 mg/l), 4270 (5 mg/l) D5401 (10 mg/l), D5402 (20 mg/l), D5403 (400 mg/l), D8010 (20 mg/l), D8060 (10 mg/l), D8061 (20 mg/l), D8062 (10 mg/l)	Grace Dearborn Ltd
POLYCHECKS	80 (400 mg/l), 5200 (400 mg/l)	
BELGARDS	EV (10 mg/l), EVN (14 mg/l) EV 2000 (10 mg/l)	Ciba Geigy Ltd
BETZ	415 (25 mg/l), 419 (10 mg/l), ANTIFOAM EVAP AF (5 mg/l), SULFITE 3 (50 mg/l), CORROGEN (20 mg/l) SULFITE FG (20 mg/l)	Betz Ltd
CALNOX ML	1432 (14 mg/l)	Magnachem Ltd
CORREXITS	2928 (25 mg/l), 2929 (50 mg/l), 2930 (100 mg/l)	Esso Chemical Ltd
C-TREAT 6 HATAVAP VAPTREATS	(8 mg/l, 1 hour in 24 hours) (60 mg/l) EC (10 mg/l), H (25 mg/l), HT (30 mg/l)	Houseman (Burnham) Ltd
CYAFS	5201 (5 mg/l), 5203 (5 mg/l), 5872 (50 mg/l)	Cyanamid of Great Britain Ltd
CYAMERS	P35 (5 mg/l), P35-D (5 mg/l), P70 (5 mg/l), P70-D (5 mg/l), P80 (50 mg/l)	
DASIC	H167 (25 mg/l)	Dasic International Ltd
DEQUESTS	2060 (6 mg/l), 2066 (14 mg/l)	Monsanto Chemicals PLC
EL-2438 (17.5 mg/l), EL-4010 (7 mg/l), EL-4420 (15 mg/l), EL-4420L (35 mg/l), EL-4420Q (25 mg/l), EL-5000 (7 mg/l), EL-5100 (10 mg/l), EL-5240 (10 mg/l), EL-5500 (10 mg/l), EL-5600 (10 mg/l), EL-9401 (10 mg/l)	Chemviron Speciality Chemicals SA/NV	
EVAPORATOR TREATMENT FORMET	2343 (100 mg/l) 344 (100 mg/l)	Perolin Co Ltd
FLOCON ANTIFOAM AF4 (1 mg/l) FLOCON ANTISCALANT 247 (1.25 mg/l)		Pfizer Chemicals (Europe and Africa)
GOLKEM	DA3 (25 mg/l)	Goldcrest Chemicals Ltd
HERCOFLOCS	812 (5 mg/l), 815 (5 mg/l), 818 (5 mg/l), 821 (5 mg/l), 839 (5 mg/l)	Hercules Powder Co Ltd

HTA 100	(6 mg/l).	WTD Trattamento acque srl
KORTOLAT	A1000SW (10 mg/l)	Fospur Ltd
MAXIVAP	(25 mg/l)	Nalfloc Ltd
NALFLOCS	9-324 (5 mg/l, 1 hour in 24 hours), D-4247 (20 mg/l)	
ML 879	(10 mg/l).	Baker Oil Treating
NALCOS	131-S (2 mg/l), D-4222 (10 mg/l), D-4242 (50 mg/l), D-4247 (20 mg/l), 8599 (50 mg/l), 8599 NI (20 mg/l)	Nalco Ltd

POC HS 2020	(10 mg/l)	Degussa Ltd
PRODECOR	ST 200 (10 mg/l)	Snamprogetti Ltd
QUALTREATS	501 (25 mg/l), 501A (25 mg/l)	Quality Water Systems Ltd
SP-1934	(50 mg/l)	Petrolite Ltd
TROS TH800	(50 mg/l), TH801 (100 mg/l)	TR Oil Services

III(2) The following products are approved for reverse osmosis plants:

AC-1000	(30 mg/l)	Drexel Equipment (UK) Ltd
AMERET	(100 mg/l), AMEROYAL (100 mg/l)	Drew Chemicals Ltd
AQUAFEEDS	AF-100 (30 mg/l), AF-600 (30 mg/l), AF-615 (30 mg/l), AF-625 (35 mg/l), AF-635 (35 mg/l)	BF Goodrich Chemical Group
BETZ	415 (25 mg/l), 419 (10 mg/l), 604 (10 mg/l)	Betz Ltd
CYANAMER	P80 (50 mg/l)	Cyanamid of Great Britain Ltd
D8062	(10 mg/l)	Grace Dearborn Ltd
POLYCHECK	80 (400 mg/l)	
EL-2438	(17.5 mg/l)	Chemviron Speciality Chemicals SA/NV
FLOCON ANTISCALANT 100	(25 mg/l)	Pfizer Chemicals (Europe and Africa)
KINRO	1020 (10 mg/l)	Atkinson Chemicals Ltd
NALCOS	A349 (20 mg/l), D-4247 (20 mg/l), 8599 (20 mg/l)	Nalco Ltd

NALFLOCS A349 (20 mg/l),
 D-4247 (20 mg/l)

Nalfloc Ltd

PERMATREAT 191 (10 mg/l)

Houseman (Burnham) Ltd

APPENDIX IV

COMPLETE LIST OF MATERIALS FOUND BY THE COMMITTEE TO BE UNOBJECTIONABLE ON HEALTH GROUNDS WHEN USED IN CONTACT WITH WATER FOR USE IN PUBLIC WATER SUPPLY AND SWIMMING POOLS

IV(1) MATERIALS OF CONSTRUCTION

IV(1)A POLYETHYLENE PIPE

ALDYL BLUE POLYETHYLENE PIPE	Du Pont (UK) Ltd
DGDS 2424	Neste Chemicals UK Ltd
FINATHENE 3802-BLUE	Labofina SA
MARLEX 3802 BLUES XC501, XC502, XC601, XC602, XC703, XC901	Phillips Petroleum Chemicals
MARLEX B BLACK, 5400 BLACK	
RIGIDEX PC 001-55 R102, PC 002-50 R102, PC 002-50 R968 BLUE	BP Chemicals Ltd

IV(1)B ACRYLONITRILE - BUTADIENE - STYRENE POLYMERS

DURAPIPE ABS PIPE AND FITTINGS	Durapipe Ltd
--------------------------------	--------------

IV(1)C CEMENTITIOUS AND ASSOCIATED PRODUCTS

The following product has been approved for use in contact with water of alkalinity greater than 40 mg CaCO₃/l

POZAMENT MAINLINE	Pozament Ltd
-------------------	--------------

The Committee is considering the mechanism for handling and approval of constituents of products in this category. At present it cannot formally approve any constituents in isolation from the remaining ingredients of the constructional concrete in which they are used. For the following products the Committee has concluded that there is no objection on health grounds to their use as constituents of concrete constructional materials for use in contact with potable water because if an application was received by the Committee for approval of concrete constructional materials containing these products it is likely that they would be approved provided that the other ingredients of the concrete were satisfactory.

CEM-FIL AR GLASS FIBRE	Fibreglass Ltd
CEMSAVE	Frodingham Cement Co Ltd
LYTAG	Lyttag Ltd
MICROPOZ	SMP International

IV(1)D FILLED ACETAL COPOLYMER FOR DOMESTIC WATER FITTINGS

KEMATALS AUTUMN BROWN, AVOCADO IMI Opella Ltd
 BLUE 741, BROWN 522,
 GREY 622, PAMPAS GREY 9604)

IV(2) PROTECTIVE COATINGS

The following have been approved by the Committee as factory applied protective coatings:

CITALS 28.05, 28.05 WHITE Fosroc Surface Coatings
NITOCOTE, NITOCOTE PL2 428, Division
NITOLINE PL2

MACROPOLS M1000, M2000 Fusion Bonding Ltd

A number of products are currently being considered by the Committee as "in situ" applied coatings.

So far the Committee has approved the solvent for use in the following solvent/bitumen "in situ" applied pipe relining formulation:

SOLVENT IN GEOPOX GAP 3 Mercol Descaling Co Ltd

Provided that the following conditions are met:

- i. the consumer is not exposed to water containing taste or odour;
- ii. the relining process is carried out in accordance with "Working Procedures" prepared by the Water Research Centre.

The Committee also recommends that the relining formulation satisfies the United Kingdom Water Fittings Byelaws Scheme relating to the effects on water quality for "user-applied" products.

IV(3) LUBRICANTS AND SEALING COMPOUNDS

AX 24 PIPE JOINTING LUBRICANT Batoyle Ltd

PERMABOND 'A' GRADE 121 Permabond Adhesives

UKADOL 46 (mole lubricating fluid) Calypsol UK

VINOLEOS 77/14 PIPE JOINTING LUBRICANT Isaac Bentley and Co Ltd
WT90 TAP AND VALVE LUBRICANT

IV(4) GASES USED TO TRACE LEAKS IN WATER MAINS

SULPHUR HEXAFLUORIDE BOC Ltd

IV(5) COLOUR CODES FOR ENDS OF ASBESTOS CEMENT PIPES

DYE COATING 22/74 Eternit TAC

IV(6) CHEMICALS FOR FLOW METER CALIBRATION

LITHIUM SALTS

The use of lithium salts for meter calibration in water mains is acceptable provided that the maximum concentration of lithium in water supplied to consumers does not exceed 0.10 mg/l at any time (the analytical method used for lithium determination should have an accuracy better than ± 0.01 mg/l at 0.10 mg/l).

APPENDIX V

COMPLETE LIST OF PRODUCTS FOUND BY THE COMMITTEE TO BE UNOBJECTIONABLE ON HEALTH GROUNDS FOR THE TREATMENT OF WATER OF SWIMMING POOLS

V(1) DISINFECTANTS

V(1) A. PRODUCTS BASED ON CHLOROISOCYANURATES

For these products the following condition applies:

The concentration of cyanuric acid in the pool water must not normally exceed 200 mg/l although in exceptional circumstances it may be allowed to rise to 400 mg/l maximum.

ACL 56, ACL 60, ACL 90 PLUS
MONSANTO CYANURIC ACID

Monsanto Chemicals PLC

BRICHLORS CHLORINE TABLETS, FLEXITABS,
PLUS CHLORINE TABLETS
SUPERSHOCK TABLETS

Robert R Bartlett and Son
Ltd

BRISWIMS CONDITIONER CHLORINE STABILISER,
FAST DISSOLVING CHLORINE TABLETS
FLEXITABS CHLORINE TABLETS

CRYSTALENE

International Distributors
Worldwide SA

FI-CLORS 60S, 91, GRANULES, STABILISER,
TABLETS MAXI, TABLETS MINI,
TRI-TABS, R/D, S/D

Chlor-Chem Ltd

HATACIDES CR, CS

Houseman (Burnham) Ltd

V(1) B. OTHER PRODUCTS

For this product the following conditions apply:

i. The concentration in the pool water must average no more than 50 mg/l and never exceed 100 mg/l.

ii. Any discharge of the pool water containing the product should be made in a manner satisfactory to the appropriate water authority.

BAQUACIL SB

Imperial Chemical Industries
Ltd (Organics Division)

For this product the following conditions apply:

i. The concentration of bromine in the pool water (as measured by DPD No.1) should be between 4.0 and 6.0 mg/l.

ii. The concentration of dimethylhydantoin in the pool water must not exceed 200 mg/l.

iii. There should be monitoring of an extent and quality which would reliably indicate any problems with skin irritation.

DI-HALO

Great Lakes Chemical
(Europe) Ltd

V(2)

ALGICIDES

For these products the following conditions apply:

- i. The concentration in the pool water for the product as supplied must not exceed the value stated below (in brackets).
- ii. If the pool water is to be discharged to a water course the maximum concentration of the active ingredient (either quaternary ammonium compounds, polyoxyethylene alkyliminio compounds, simazine or copper) must not exceed 0.05 mg/l in the watercourse at the point of discharge.

A-580	(50 mg/l)	Atlantic Water Technology Ltd
ALBRICIDE	W5 (100 mg/l)	Albright and Wilson Ltd
ALGIBAN	(12 mg/l)	Wilkinson and Simpson Ltd
ALGICIDES	5322 (10 mg/l), DS 5342 (10 mg/l)	Imperial Chemical Industries Ltd (Organics Division)
BRISWIMS	ALGICIDE LIQUID (150 mg/l) CATIONIC LIQUID (150 mg/l)	Robert R Bartlett and Sons Ltd
BRITOC	ALGICIDE (100 mg/l)	
BUSANS	77 (50 mg/l), 79 (50 mg/l), WSCP (50 mg/l), WSCP-2 (50 mg/l)	Buckman Laboratories SA
GLOQUAT	C (10 mg/l)	ABM Chemicals Ltd
GLOKILL	PQ (50 mg/l)	
HATACIDES	16 (100 mg/l), 18 (100 mg/l), 28 (50 mg/l)	Houseman (Burnham) Ltd
HOWES OLYMPIC ALGAECIDE	(15 mg/l)	Killgerm Chemicals Ltd
KINTROLS	524 (10 mg/l), 580 (50 mg/l)	Atkinson Chemicals Ltd
KLEENPOOL	ALGICIDE (100 mg/l)	Certikin Ltd

V(3)

FLOCCULATING AND CLARIFYING AGENTS

FI-CLOR FLOCCULANT

Chlor Chem Ltd

For these products the following conditions apply:

- i. The concentration in the pool water for the product as supplied must not exceed the value stated below (in brackets).
- ii. If the pool water is to be discharged to a watercourse the maximum concentration of the active ingredient (either quaternary ammonium compounds or polyoxyethylene alkyliminio compounds) must not exceed 0.05 mg/l in the watercourse at the point of discharge.

FI-CLOR CLEANSE (100 mg/l)

Chlor Chem Ltd

HICAT-1 (10 mg/l)

Buckman Laboratories SA

V(4)

MISCELLANEOUS PRODUCTS

POOLCHLOR, TARNCLENE

Water Management Chemicals
Ltd

For this product the following condition applies:

A single application must not exceed 90 gm per 100 m² of surface area (3 fl ozs per 1,000 sq ft).

VAPORIN

Wilkinson and Simpson Ltd

For this product the following condition applies:

The concentration of the active ingredient does not exceed 15 mg/l in the pool water.

POOL CURE

Total Water Treatment

APPENDIX VI

Complete list of chemicals commonly used in the treatment of water which are considered by the Committee to be unobjectionable on health grounds for the treatment of water for the purposes indicated provided that they are used in accordance with the manufacturers' instructions and at the normally accepted concentrations and points of application. The purity of these chemicals shall be such that, in the case of water for public supply, the water so treated meets the requirements of the EC Directive relating to the Quality of Water Intended for Human Consumption (80/778/EC).

VI(1) CHEMICALS

ALUMINIUM	MAGNESIUM CARBONATE
ALUMINIUM CHLOROHYDRATE	MAGNESIUM HYDROXIDE
ALUMINIUM SULPHATE	MAGNESIUM OXIDE
AMMONIA	MANGANESE DIOXIDE
AMMONIUM CHLORIDE	OZONE
AMMONIUM SULPHATE	PHOSPHORIC ACID
BENTONITE	POTASSIUM CARBONATE
CALCIUM CARBONATE	POTASSIUM HYDROXIDE
CALCIUM CHLORIDE	POTASSIUM PERMANGANATE
CALCIUM HYDROXIDE	SODIUM ALUMINATE
CALCIUM HYPOCHLORITE	SODIUM BICARBONATE
CALCIUM OXIDE	SODIUM BISULPHATE
CALCIUM SULPHATE	SODIUM BISULPHITE
CARBON DIOXIDE	SODIUM CARBONATE
CHLORINE	SODIUM CHLORIDE
CHLORINE DIOXIDE (see I(2)C)	SODIUM CHLORITE (see I(2)C)
COPPER SULPHATE	SODIUM FLUORIDE
DIATOMACEOUS EARTH	SODIUM HEXAMETAPHOSPHATE
FERRIC CHLORIDE	SODIUM HYDROXIDE
FERRIC SULPHATE	SODIUM HYPOCHLORITE
FERROUS SULPHATE	SODIUM METABISULPHITE
HEXAFLUOROSILICIC ACID	SODIUM PHOSPHATES
HYDROCHLORIC ACID	SODIUM POLYPHOSPHATES
HYDROGEN PEROXIDE	SODIUM SILICATE
	SODIUM SILICOFLUORIDE
	SODIUM SULPHATE
	SODIUM THIOSULPHATE
	SULPHUR DIOXIDE
	SULPHURIC ACID

VI(2) PRODUCTS

The following products have been approved under the requirements of Appendix VI.

VI(2)A FOR USE IN PUBLIC WATER SUPPLY

A-112		Atlantic Water Technology Ltd
ALBRITES	Disodium Phosphate (Food Grade) Trisodium Phosphate (Food Grade) Sodium Tripolyphosphate (Food Grade)	Albright and Wilson Ltd
AQUARITES	B55, B121, B222, B333, B431, C134, C322, C423, S25, SC36, SC47, SC58, SL24	
CALGON SWB	Sodium Polyphosphate Glass	
KALIPOL 20WB	Sodium Polyphosphate Solution	
MICROMETS	STANDARD GRADE, X GRADE	
TETRON TG	Tetrasodium Diphosphate (Food Grade)	
ALKATREATS	2, 20	Houseman (Burnham) Ltd
HATAMET		
PHOSTREATS	41, 42	
BERKBENT	CE	Steetley Minerals Ltd
BOLIDEN AVR		Boliden Kemi AB
CHEMISOL	325	Chemicare
CHLOROS		Imperial Chemical Industries Ltd (Mond Division)
RAYON GRADE	Caustic Soda Liquor	
STANDARD GRADE	Caustic Soda Liquor	
CILLIT	55 HARD	Benckiser Ltd
COAGULANT AIDS	25, 35	Chemviron SA
ECONOFLOC	7	High Chemicals (UK) Ltd
HIGHFLOC	6, 7, 11, 71, 72, 73, 75	
FLOGARDS	200, 486, 558, 860, 5431, 5929	Grace Dearborn Ltd
IMPULSANS	H1, H2, H3, H4, HE, C5	Aquastat Ltd
INDUCLOR, PITTABS, PITTCLOR		PPG Industries (Europe) srl
PPG CALCIUM HYPOCHLORITE, ZAPPIT		
KORTOLAT A500P		Fospur Ltd
LYCALS 93/12, 93/34, 93/711		Steetley Refractories Ltd
MAGNASPHERES		
NALFLOC	N918 POWDER	Nalfloc Ltd
PWT POTABLE WATER TREAT		"Vecom" BV

	QUANTOPHOS H	Fernox Manufacturing Co. Ltd
	SP-2290	Petrolite Ltd
VI(2)B	FOR USE IN SWIMMING POOLS	
	BAQUATOP	Imperial Chemical Industries Ltd (Organics Division)
	BRIDOS SP GRADE HYPOCHLORITE	Robert R Bartlett and Sons Ltd
	BRISWIMS ALKALI, CHLORINE NEUTRALISER, DRY ACID, GRANULAR FLOC, GOLDIFLOC FINE FILTER TABLETS, HISPEC STABILISED CHLORINE LIQUID, IRON/CALCIUM SEQUESTRANT, PH STABILISER, SUPERSHOCK CHLORINE GRANULES, WATER HARDENER	
	CHEMISOL 325	Chemicare
	CHLOROS	Imperial Chemical Industries Ltd (Mond Division)
	CHLORYTE	Surex SP Products Ltd
	INDUCLOR, PITTABS, PITTCLOR PPG CALCIUM HYPOCHLORITE, ZAPPIT	PPG Industries (Europe) srl
	LYCALS 93/12. 93/74. 93/711 MAGNASPHERES	Steetley Refractories Ltd
	PHOSTREAT PWT	Houseman (Burnham) Ltd
VI(2)C	FOR USE IN SEA WATER DISTILLATION PLANTS	
	AQUARITES B55, B121, B222, B323, B431, S24, S25, SL24	Albright and Wilson Ltd

MANUFACTURER/SUPPLIERS NAMES AND ADDRESSES

ABM Chemicals Ltd
Wortley Low Mills
Whitehall Road
Leeds LS12 4RF

Albright and Wilson Ltd
PO Box 80
Trinity Street
Oldbury, Warley
West Midlands B69 4LN

Allied Colloids Ltd
PO Box 38
Low Moor
Bradford
West Yorkshire BD12 0JZ

Alumina Co Ltd
Ditton Road Works
Widnes
Cheshire WA8 0PH

Aquastat Ltd
Silverdale Road
Hayes
Middlesex UB3 3BB

Atkinson Chemicals Ltd
19 Byron Close
Twyford
Reading RG10 0BG

Atlantic Water Technology Ltd
Victoria House
28/38 Desborough Street
High Wycombe
Bucks HP11 2NF

Baker Oil Treating
Erimus House
Queens Square
Middlesborough
Cleveland TS2 1AA

Batoyle Ltd
PO Box 19
Colne Vale Road
Milnsbridge
Huddersfield HD3 4NT

Benckiser Ltd
Benckiser House
1 Norfolk Road
Rickmansworth
Herts WD3 1JG

Betz Ltd
Nat Lane
Winsford
Cheshire CW7 9BS

B F Goodrich Chemical Group
The Lawn
100 Hampton Road
Hounslow
Middlesex

Blue Circle Industries PLC
London Road
Greenhithe
Kent DA9 9JQ

BOC Ltd
Special Gases
24 Deer Park Road
London SW19 3UF

Boliden Kemi AB
Division Water Treatment
Box 902
S-251 09 Helsingburg
Sweden

B P Chemicals Ltd
Sully
Penarth
South Glamorgan CF6 2YU

Buckman Laboratories SA
Wondelgemkaai
B-9000 Ghent
Belgium

Calypsol UK
78a St Marks Road
Henley-on-Thames
Oxfordshire RG9 1LW

Certikin Ltd
Star Road
Partridge Green
Horsham
West Sussex

Chemicare
6 Maplewood Court
Llandaff
Cardiff CF4 2NB

Chemifloc Ltd
Smithstown Industrial Estate
Shannon
County Clare
Republic of Ireland

Chemische Fabrik Stockhausen GmbH
Postfach 570
4150 Krefeld 1
Germany

Chemviron Speciality
Chemicals SA/NV
Brusselsesteenweg 359
1900 Dverijsw
Belgium

Chlor Chem Ltd
Mount Pleasant House
Huntingdon Road
Cambridge
CB3 0DA

Ciba Geigy Ltd
30 Buckingham Gate
London SW1E 6LH

Clearway Water Treatment
Village Farm Industrial Estate
Pyle
Mid Glamorgan CF33 6NV

Cornelius Chemical Co. Ltd
St. James House
27-43 Eastern Road
Romford
Essex
RM1 3NN

Crosmill Flocculants Ltd
11 Millingfield
Holmes Chapel
Crewe CW4 7DA

Cyanamid of Great Britain Ltd
Bowling Park Drive
Bradford
West Yorkshire BD4 7ES

Dasic International Ltd
Winchester Road
Romsey
Hampshire SO5 8YD

Degremont Laing Ltd
Aquazur House
Elstree Way
Boreham Wood
Herts WD6 1WF

Degussa Ltd
Earl Road
Stanley Green
Handforth
Wilmslow
Cheshire SK9 3RL

Drew Chemicals Ltd
Marlowe House
Station Road
Sidcup, Kent

Drexel Equipment (UK) Ltd
Midmoor House
Parkshot
Richmond
Surrey

Duolite International SA
107 Rue Edith Cavell
BP8-94402
Vitry-Sur-Seine
France

Du Pont (UK) Ltd
Hilcote Plant
PO Box 1
Blackwell
Derbyshire DE55 5JD

Durapipe Ltd
Norton Canes
Cannock
Staffordshire WS11 3NS

Esso Chemical Ltd
PO Box 1
Abingdon
Oxon OX13 6BB

Eternit TAC Ltd
Meridian House
Park Road
Swanley
Kent BR8 8AH

Fernox Manufacturing Co Ltd
Britannica Works
Clavering
Essex CB11 4BZ

Fibreglass Ltd
Reinforcements Division
St Helens
Merseyside WA10 3TR

Fospur Ltd
Alfreton Industrial Estate
Nottingham Road
Somercotes
Derby DE5 4LR

Fosroc Surface Coatings Division
Stafford Park
Telford
Salops

Frodingham Cement Co Ltd
Brigg Road
Scunthorpe
South Humberside DN16 1AW

Fusion Bonding Systems Ltd
29 Milton Lawns
Chesham Bois
Bucks
HP6 6BJ

Goldcrest Chemicals Ltd
Croft Head
Skelmanthorpe
Huddersfield
HD8 9EB

Grace Dearborn Ltd
Foundry Lane
Ditton
Widnes
Cheshire WA8 8TZ

Great Lakes Chemical (Europe) Ltd
Belmont Chambers
28 Bakers Road
Uxbridge
Middlesex UB8 1QS

Hercules Powder Co Ltd
20 Red Lion Street
Holborn
London WC1

High Chemicals (UK) Ltd
Unit 18
Tafarnau Bach Industrial Estate
Tredegar
Gwent NP2 3AA

Houseman (Burnham) Ltd
The Priory
Burnham
Slough SL1 7LS

IMI Opella Ltd
Twyford Road
Rotherwas Industrial Estate
Hereford

Imperial Chemical Industries Ltd
Mond Division
PO Box 13
The Heath, Runcorn
Cheshire WA7 4QF

Imperial Chemical Industries Ltd
Organics Division
PO Box 42
Hexagon House
Blackley
Manchester M9 3DA

International Distributors Worldwide SA
22 Parc du Chateau Banquet
1202 Geneva
Switzerland

Isaac Bentley and Co Ltd
Naylor Street
Liverpool L3 6DS

K and K Greeff Ltd
Suffolk House
George Street
Croydon CR8 3QL

Kelco/AIL
22 Henrietta Street
London WC2E 8NB

Killgerm Chemicals Ltd
PO Box No 2
Wakefield Road
Flushdyke
Ossett
West Yorkshire WF5 9BW

Labofina SA
Siege de Feluy
Zoning Industriel
B-6520 Feluy
Belgium

Lambson Ltd
Aire and Calder Works
Cinder Lane
Castleford
West Yorks WF10 1LU

Laporte Industries Ltd
Laporte Inorganics
Moorfield Road
Widnes
Cheshire WA8 0HE

L S Raw Materials Ltd
Rodary house
Alderton Crescent
London NW4 3XX

Lyttag Ltd
Hamilton House
111 Marlowes
Hemel Hempstead
Hertfordshire HP1 1BB

Magnachem Ltd
Erimus House
Queens Square
Middlesborough
Cleveland TS2 1AA

Mercol Descaling Co Ltd
Carr Vale
Bolsover
Chesterfield
Derbys

Mitsubishi Corporation
Bow Bells House
Broad Street
Cheapside
London EC4M 9BQ

Monsanto Chemicals plc
Monsanto House
Chineham Court
Chineham
Basingstoke
Hants RG24 0UL

Nalco Ltd
Index House
St George's Lane
Ascot
Berkshire SL5 7EU

Nalfloc Ltd
PO Box 11
Mond House
Winnington
Northwich
Cheshire CW8 4DX

National Starch and Chemical Ltd
Braunston
Daventry
Northants NN11 7JL

Neste Chemicals UK Ltd
Emerson Court
Alderley Edge
Wilmslow
Cheshire
SK9 1NK

Olin (UK) Ltd
Cutnall Green
Droitwich
Worcestershire WR9 0NS

Permabond Adhesives
Woodside Road
Eastleigh
Hants
SO5 4EX

Perolin Co Ltd
Brimscombe Mills
Brimscombe
Stroud
Gloucestershire GL5 2SA

Petrolite Ltd
Kirkby Park Road
Knowsley Industrial Park North
Liverpool L33 7SY

Pettibone (UK) Ltd
Norton Street
Manchester M10 8AD

Pozament Ltd
Swains Park Industrial Estate
Overseal
Burton-on-Trent
Staffordshire
BE1L 6JN

Pfizer Chemicals (Europe and Africa)
Sandwich
Kent

Phillips Petroleum Chemicals SA
Steenweg op Brussel 355
B-1900 Overijse
Belgium

PPG Industries (Europe) srl
Via Abruzzi 25
00187 Roma
Italy

Quality Water Systems Ltd
Shield House
Gatehouse Close
Aylesbury
Bucks

Robert R Bartlett and Sons Ltd
Millbrook Road
Stover Trading Estate
Yate
Bristol BS17 5PB

Severn Water Services
John Foulkes Factory
Stourport Road
Kidderminster
Worcs

SMP International
83 Spring Bank
Hull
North Humberside HU3 1AR

Snamprogetti Ltd
Snamprogetti House
Basing View
Basingstoke
Hants RG21 2YY

SNF Floerger
41 Rue Jean-Huss
42000 Saint Etienne
France

Steetley Minerals Ltd
Woburn Road
Woburn Sands
Milton Keynes
MK17 8TU

Steetley Refractories Ltd
Magnesia Division
PO Box 8
Hartlepool
TS24 0BY

Surex SP Products Ltd
Unit 10
Airport Trading Estate
Biggin Hill
Kent
TN16 3BW

Thomas Ness Ltd
Eastwood Hall
Eastwood
Nottingham NG16 3ER

Tilcon Water Treatment Services
Grangefield Industrial Estate
Richardshaw Lane
Pudsey
Leeds LS28 60L

Total Water Treatment Ltd
Chester Road
Oakmere
Northwich
Cheshire CW8 2HB

TR Oil Services
134-138 Borough High Street
LONDON SE1 1LB

Tunnel Avebe Starches Ltd
Avebe House
Otterham Quay
Rainham
Gillingham
Kent ME8 7UU

Vecom B V
Postbus 27
3140 A A Maassluis
Holland

Water Management Chemicals Ltd
Lisle Avenue
Kidderminster
Worcestershire DY11 7DF

Watermiser Ltd
Tower Works
Stoneygate Road
Newmilns
Ayrshire KA16 9AJ

Wellcome Foundation Ltd
Wellcome Research Laboratories
Berkhamsted Hill
Berkhamsted
Herts HP4 2OE

Wilkinson and Simpson Ltd
57 Queensway
Team Valley Trading Estate
Gateshead
Tyne and Wear NE11 0NS

Witton Chemical Co Ltd
Hampstead Avenue
Mildenhall
Bury St Edmunds
Suffolk IP28 7AS

WTD Trattamento acque srl
00158 Roma
135 V Ergisto Bezzi
Italy