

Safety Data Sheet

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REVISION (see box 16)

Issue : 05 14 : 08 : 2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	HP 550
Description	An organic halon releasing agent used to treat industrial cooling systems. Off-white tablets with a slight halogen odour.
Company	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	
Classification (Supply – Use) : In compliance with EC Directive 1999/45.	
C Corrosive	R34 Causes burns. R22 Harmful if swallowed. R31 Contact with acid liberates toxic gas.
N Dangerous for the Environment	R50 Very toxic to aquatic organisms.
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):	
Product causes burns on contact with skin and eyes. Harmful if swallowed.	
Adverse effects on the environment are unlikely, provided that the product is used as intended.	

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)		
% w/w	Common*/Chemical Name, Elincs/Einecs & CAS No. of Ingredients	EC 1999/45 Classification
>50.0 ≤100.0	Bromo,chloro-5,5-dimethylhydantoin EINECS : 251-171-5 CAS : 32718-18-6	C : R34 X _n : R22 : R31 N : R50

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4 FIRST-AID MEASURES (SEE ALSO "ADVERSE EFFECTS" IN BOX 2)	
Inhalation	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.

5 FIRE FIGHTING MEASURES	
Fire Extinguisher Type	Use water spray, fog, mist or foam extinguishers. DO NOT use carbon dioxide or dry chemical extinguishers.
Special Fire-Fighting Procedures	Wear self-contained breathing apparatus and suitable personal protective equipment.
Special Exposure Hazards	Toxic gases/vapours/fumes of hydrogen bromide, bromine, hydrogen chloride, chlorine and oxides of carbon and nitrogen may be released in the event of a fire.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
Clean-up Procedure (See also box 13)	Remove mechanically by careful sweeping and transfer to a suitable clean and labelled container. Avoid generation of dust and physical contact. Wash swept area with large amounts of water.

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
Handling Storage	Avoid handling which leads to dust formation. 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. Protect from light, including direct sunrays. Keep away from heat, sparks, and open flame.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Not assigned.
Engineering Controls	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:
Eye Protection	Suitable eye protection such as goggles.
Hand Protection	Suitable hand protection such as gloves.
Skin Protection	Suitable skin protection such as coveralls.
Breathing Protection	Do not breathe vapour, otherwise wear suitable respiratory protection.
Environmental Exposure Controls	Use only in accordance with instructions given. An ecological hazard assessment indicates no specific restrictions on environmental release.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	Off-white tablets with a slight halogen odour.		
pH	3.5 (0.15% solution at 20°C)	Solubility in Water	Slightly soluble
Density	1.0 g/cm ³ at 20°C	Solubility in Other Solvents	Not determined.
Flash Point	Not determined.	Explosive Properties	Not determined.
Flammability	Not determined.	Combustibility	Not determined.
Boiling Point/Range	Not applicable.	Oxidising Properties	Not an oxidiser.
Vapour Density	Not determined.	Evaporation Rate	Not applicable.
Vapour Pressure	Not determined.	Partition Coefficient	0.35
Viscosity	Not applicable.	Other Data	Melting point range: 145-160°C

10 STABILITY AND REACTIVITY

Conditions to avoid	Avoid moisture, heat, flames and other sources of ignition.
Materials to avoid	Avoid contact with acids, alkalies, oxidisers or reducing agents.
Hazardous Breakdown Products	Toxic gases/vapours/fumes of hydrogen bromide, bromine, hydrogen chloride, chlorine and oxides of carbon and nitrogen.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)



Acute Toxicity	Oral	LD ₅₀ (rat): 578 mg/kg
	Inhalation	Not determined.
	Dermal	LD ₅₀ (rabbit): > 2000 mg/kg
Corrosivity/Irritation	Skin	Causes burns.
	Eyes	Causes burns.
	Respiratory tract	Not determined.
Sensitisation	Skin	Contains no known skin sensitisers.
	Respiratory	Contains no known respiratory sensitisers.
Repeat-Dose Toxicity		Product does not contain any components known to have any effects relating to repeated-dose toxicity.
Mutagenicity		Product does not contain any components known to have a mutagenic effect.
Carcinogenicity		Product does not contain any components known to have a carcinogenic effect.
Reproductive Toxicity	Fertility	Product does not contain any components known to have effects on fertility.
	Development	Product does not contain any components known to be toxic to the reproductive system.
Other Information		None known.

12 ECOLOGICAL INFORMATION

General Information	This product is classified as very toxic to aquatic organisms. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
Ecotoxicity Data	Fish: LC ₅₀ (96h): 0.87 mg/L Daphnia: EC ₅₀ (48): 0.46 mg/L American oyster: LC ₅₀ (96h): > 640 mg/L
Mobility	Not determined.
Persistence and Degradability	Degrades by hydrolysis.
Bioaccumulative Potential	Low bioaccumulation potential.
Other Adverse Effects	Chemical Oxygen demand (COD): 1.005 g/g

13 DISPOSAL CONSIDERATIONS

Disposal of Waste / Containers	This product is dangerous for the environment. Do not discharge waste washings or waste product to sewers, drains or watercourses. Under normal circumstances, waste / empty containers will be disposed of by Rentokil Initial.
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	<u>Hazard Code</u> : H5 - Harmful; H8 – Corrosive; H12 – Produces toxic gas in contact with acid; H14 – Ecotoxic
Note for Disposal	<u>Components making the waste hazardous</u> Bromo,chloro-5,5-dimethylhydantoin <u>Concentrations (%)</u> : >50.0 ≤100.0
	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.

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN3085	Tremcard Reference No.	CEFIC TEC (R)- 51GOC2-I+II+III	RIS Code
Transport Category	2	UK Hazchem EAC	2W	PSV90
ADR 2005 (International Road)	Class 5.1		ADR HIN 58	Labels
Proper Shipping Name	OXIDISING SOLID, CORROSIVE, N.O.S., (contains bromo-chloro-5,5-dimethylhydantoin)			 
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 500 g. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required.		Packing Group II	
IMDG 2004 (Sea)	Class 5.1		IMDG EMS F-A, S-Q	
Proper Shipping Name	OXIDISING SOLID, CORROSIVE, N.O.S., (contains bromo-chloro-5,5-dimethylhydantoin)			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 1 kg. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required.		Packing Group II	
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	<p>S8 : Keep container dry.</p> <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 eye/face protection.</p> <p>S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p>S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.</p>
Additional Label Phrases	Not required.
Legislation	<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) does not 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	
Packaging Information	A plastic tub containing approx. 23 kg of pellets.
Revisions	Changes have been made to the content of boxes 1, 2, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 04.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R22 : Harmful if swallowed.</p> <p>R31 : Contact with acids liberates toxic gas.</p> <p>R34 : Causes burns.</p> <p>R50 : Very toxic to aquatic organisms.</p>

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

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