

Safety Data Sheet

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REVISION (see box 16)

Issue : 07 07 : 11 : 2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	BT 150
Description	Product is a complete liquid treatment for coil generators and small steam boilers. A very pale pink liquid with a pungent, acrid odour.
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 (Supply – Use) : In compliance with EC Directive 1999/45.
Not classified
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):
Contact with acids liberates toxic gas.
May cause irritation to eyes, skin and respiratory system. Inhalation may produce a hard uncontrollable cough. If ingested may cause nausea, vomiting and irritation of gastrointestinal tract.

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 ≤10.0	Sodium hydrogen sulphite EINECS: 231-548-0 CAS : 7631-90-5	X _n : R22 : R31
>2.5 ≤10.0	Potassium sulphite EINECS : 233-321-1 CAS : 10117-38-1	X _i : R36/37/38
>2.5 ≤10.0	Sodium sulphite EINECS : 231-821-4 CAS : 7757-83-7	: R31

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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 carbon dioxide, foam, water, or dry powder extinguishers.
Special Fire-Fighting Procedures	Wear self-contained breathing apparatus and suitable personal protective equipment.
Special Exposure Hazards	Sulphur dioxide and oxides of carbon may be liberated in the event of a fire.

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

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
Handling Storage	Keep away from acids and oxidising agents. 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 frost.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Workplace Exposure Limit (WEL) sodium hydrogen sulphite is 5 mg/m ³ long-term exposure (8 hour Time Weighted Average).
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 synthetic rubber/PVC gloves.
Skin Protection	Suitable skin protection such as coveralls.
Breathing Protection	None necessary during normal handling and use, unless ventilation is inadequate, in which case wear suitable respiratory protection.
Environmental Exposure Controls	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	A very pale pink liquid with a pungent, acrid odour.		
pH	7.0-7.4	Solubility in Water	Miscible.
Density	1.178-1.180 g/cm ³ at 20°C	Solubility in Fat	Insoluble.
Flash Point	Not determined.	Explosive Properties	None.
Flammability	Non-flammable.	Combustibility	Not determined.
Boiling Point	Ca. 103°C	Oxidising Properties	None.
Vapour Density	Not determined.	Evaporation Rate	Not determined.
Vapour Pressure	Not applicable.	Partition Coefficient	Not applicable.
Viscosity	Not determined.	Other Data	None known.

10 STABILITY AND REACTIVITY

Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C. Protect from frost.
Materials to avoid	Avoid contact with acids, oxidising agents, volatile amines and ammonia. Do not allow vapour and/or liquid to mix with vapours from ST 210 or ST 220.
Hazardous Breakdown Products	Sulphur dioxide and oxides of carbon may be liberated in the event of a fire.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

Acute Toxicity	Oral	For cobalt sulphate: LD ₅₀ oral (rat) 424 mg/kg. If swallowed, may cause nausea and vomiting.
	Inhalation	Not determined.
	Dermal	Not determined.
Corrosivity/Irritation	Skin	May cause skin irritation.
	Eyes	May cause eye irritation.
	Respiratory tract	May be irritating to mucous membranes and upper respiratory tract.
Sensitisation	Skin	Contains less than 1% skin sensitisers in the form of cobalt sulphate.
	Respiratory	Contains less than 1% respiratory sensitisers in the form of cobalt sulphate.
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 at concentrations greater than 0.1% 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 does not contain any substances that are classified as dangerous to the environment present above the lower limits of concentration as specified in EC Directive 1999/45. Controlled release of this product is not expected to cause environmental contamination. Use only in accordance with instructions given.
Ecotoxicity Data	For sodium sulphite: 96 h LC ₅₀ Mosquito fish in fresh water : 2,600 mg/L 50 h LC ₅₀ <i>Daphnia magna</i> in fresh water: 69 mg/L
Mobility	The majority of the components in this product are soluble in water and as such it is expected to partition to the aqueous phase.
Persistence and Degradability	Sodium hydrogen sulphite and sodium sulphite will degrade to form sulphates in the natural environment.
Bioaccumulative Potential	Not determined.
Other Adverse Effects	The sulphite components in BT 150 will degrade to form sulphates in the natural environment, which will deplete oxygen levels in watercourses.

13 DISPOSAL CONSIDERATIONS

Disposal of Waste / Containers	Ensure that this product is disposed of as hazardous waste, in accordance with the appropriate regulations.
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	Hazard Code: H12 – Production of toxic gases.
Note for Disposal	Components making the waste hazardous Concentrations (%): Sodium sulphite >2.5 ≤10.0 Sodium hydrogen sulphite >2.5 ≤10.0
	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.	Not Classified.	Tremcard Reference No.	Not required.	RIS Code
Transport Category	Not required.	UK Hazchem EAC	Not required.	PBT150
ADR 2005 (International Road)	Class Not required.	ADR HIN	Not required.	Labels Not required.
Proper Shipping Name	Not required.			
Limited Quantity Exemptions	Not required.			
Special Requirements	Not required.	Packing Group	Not required.	
IMDG 2004 (Sea)	Class Not required.	IMDG EMS	Not required.	
Proper Shipping Name	Not required.			
Limited Quantity Exemptions	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))	
Safety Phrases	Safety phrases are not required.
Additional Label Phrases	Safety data sheet available for professional user on request. Avoid contact with acids.
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) 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 sought where appropriate.

16 OTHER INFORMATION AND INDICATION OF REVISIONS	
Packaging Information	A tighthead 12.5 litre, plastic bottle with a screw top.
Revisions	Changes have been made to the content of boxes 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 06.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 11 for the product risk phrases)	R22 : Harmful if swallowed. R31 : Contact with acids liberates toxic gas. R36/37/38 : Irritating to eyes, skin and respiratory system.

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

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