

# Safety Data Sheet

**DATE** : 01:07:2002

**REVISION** (see box 16)


**ISSUE NO** : 05

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**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY**

PRODUCT NAME	: <b>BT 102</b>
DESCRIPTION	: A clear, straw coloured liquid with a pink tint and a smell of sulphur dioxide. A blend of catalysed oxygen scavengers and an antifoam agent for use in boiler treatments.
COMPANY	: Rentokil Initial UK Ltd, Hygiene, Felcourt, East Grinstead, West Sussex. RH19 2JY. England. Telephone: +44 (0)1342 833022 Facsimile: +44 (0)1342 326229.

**2. HAZARDS IDENTIFICATION**

CLASSIFICATION OF PRODUCT (SUPPLY - Use) : UK CHIP 3 (The Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002) / EC Directive 1999/45.	DANGER SYMBOL (UK CHIP 3): (Black on orange background)
<b>X<sub>n</sub> - HARMFUL</b> : R22 : Harmful if swallowed. : R31 : Contact with acids liberates toxic gas.	
ADVERSE PHYSICOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (see also box 11): Toxic gas will be evolved in contact with acids. Sulphur dioxide and oxides of carbon may be liberated in the event of a fire. May cause irritation to eyes, skin and respiratory system. Inhalation may produce a hard, uncontrollable cough. Product is harmful if swallowed and may cause nausea, vomiting and irritation of gastrointestinal tract. Adverse effects on the environment are unlikely, provided that the product is used as intended.	<b>HARMFUL</b>

**3. COMPOSITION / INFORMATION ON INGREDIENT(S)**

% w/w	COMMON*/CHEMICAL NAME, ELINCS / EINECS AND CAS No OF INGREDIENT(S)	UK CHIP 3 / EC 1999/45 CLASSIFICATION OF INGREDIENT(S)
> 25 ≤ 50	Sodium hydrogen sulphite EINECS: 231-548-0 CAS: 7631-90-5	X <sub>n</sub> - Harmful : R22 : Harmful if swallowed. : R31 : Contact with acids liberates toxic gas.

#### 4. FIRST-AID MEASURES (see also "adverse effects" in box 2)

INHALATION (Breathing)	: 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 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	: For further information contact the National Poisons Information Service in the UK.

#### 5. FIRE-FIGHTING MEASURES

FIRE EXTINGUISHER – TYPES	: Use carbon dioxide, foam, water-spray or dry powder. Do not use water-jets.
SPECIAL FIRE-FIGHTING PROCEDURES	: Wear self-contained breathing apparatus to protect against any toxic fumes.
SPECIAL EXPOSURE HAZARDS	: In the event of fire sulphur dioxide and oxides of carbon may be liberated.

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS (see also box 8)	: Wear suitable personal protective equipment.
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. DO NOT contaminate watercourses or ground.

#### 7. HANDLING AND STORAGE (see also box 8)

HANDLING	: Wear suitable protective clothing, gloves and eye/face protection. If swallowed, seek medical advice immediately and show the container or label.
STORAGE	: Store in original container in a cool, dry, ventilated place out of reach of children and away from food, drink and animal feeding stuffs.  Do not store near to, or allow to come into contact with, acids/alkalis or oxidising agents.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (see also box 7)

OCCUPATIONAL EXPOSURE LIMITS	: OES for sodium hydrogen sulphite is 5 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average) and for sulphur dioxide is 5.3 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average) and 13 mg/m <sup>3</sup> short-term exposure (15 minute reference period).
ENGINEERING CONTROLS	: Where prevention of exposure is not reasonably practicable, adequate control of exposure should be achieved by engineering controls rather than the provision of personal protective equipment and clothing. More specific details cannot be given without carrying out a full risk assessment for each and every use scenario. Suitable and approved personal protective equipment and clothing may include the following item(s):
EYE PROTECTION	: Wear suitable eye protection such as goggles.
HAND PROTECTION	: Wear suitable hand protection such as synthetic rubber / PVC gloves.
SKIN PROTECTION	: Wear suitable skin protection such as coveralls.
BREATHING PROTECTION	: Not required unless natural ventilation is inadequate.
ENVIRONMENTAL EXPOSURE CONTROLS	: Product should be used in accordance with instructions given in Hygiene Technical Manual and any spillage should be dealt with as a priority in order that contamination of watercourses or ground is avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	: A clear, straw coloured liquid with a pink tint and a smell of sulphur dioxide.		
FLASH POINT	: Not applicable.	SOLUBILITY IN WATER	: Miscible.
FLAMMABILITY	: Non-flammable.	SOLUBILITY IN FAT	: Immiscible.
AUTOFLAMMABILITY	: Not applicable.	PARTITION COEFFICIENT	: Not applicable.
VAPOUR PRESSURE	: Not determined.	BOILING POINT/RANGE	: 105.5°C
SPECIFIC GRAVITY	: 1.23 at 20°C	MELTING POINT/RANGE	: Not applicable.
OXIDISING PROPERTIES	: None known.	pH	: 4.2 – 4.6 at 20°C
EXPLOSIVE PROPERTIES	: None known.	VAPOUR DENSITY	: Not determined.
VISCOSITY	: Not applicable.	EVAPORATION RATE	: Not determined.
OTHER DATA	: None known.		

## 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID	: Avoid extremes of temperature, eg. below 0°C and above 40°C.
MATERIALS TO AVOID	: Avoid contact with acids/alkalis, oxidising agents, volatile amines and ammonia.
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	: Product is harmful if swallowed and may cause nausea and vomiting. Ingestion may also cause irritation of the gastrointestinal tract.
	Inhalation	: No data available.
	Dermal	: No data available.
CORROSIVITY / IRRITATION	Skin	: May cause irritation to skin.
	Eyes	: May cause irritation to eyes.
	Respiratory tract	: May cause irritation to respiratory system. May produce a hard, uncontrollable cough.
SENSITISATION	Skin	: Contains no known skin sensitisers.
	Respiratory	: Contains no known respiratory sensitisers.
REPEATED-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 be toxic to the reproductive system, and having effects on fertility.
	Developmental	: Product does not contain any components known to be toxic to the reproductive system, and having effects on development.
OTHER INFORMATION		: No specific antidote known.

## 12. ECOLOGICAL INFORMATION

GENERAL INFORMATION	: The full ecotoxicological profile of this product has not been evaluated. Do not contaminate the environment.
ECOTOXICITY DATA	: Sodium hydrogen sulphite will deplete oxygen levels in watercourses.
MOBILITY (of appropriate constituents)	: No data available.
PERSISTENCE AND DEGRADABILITY (of appropriate constituents)	: Sodium hydrogen sulphite will degrade to form sulphates in the natural environment.
BIOACCUMULATIVE POTENTIAL (of appropriate constituents)	: No data available.
ENVIRONMENTAL CONSIDERATIONS	: DO NOT contaminate watercourses or ground This product does not contain any substances that are classified as dangerous to the environment. Thus, when supplied, used and disposed of as directed this product is not expected to present a danger to the environment.
OTHER ADVERSE EFFECTS	: None known.

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE	: Waste should be disposed of in accordance with local, State or National requirements.
DISPOSAL OF CONTAINERS	: Empty containers should be disposed of in accordance with local, State or National requirements.
UK SPECIAL WASTE REGULATIONS, 1996	: <u>Hazard Code</u> : H5 - Harmful H12 – Production of toxic gases. <u>Components making the waste special and their concentrations</u> : Sodium hydrogen sulphite > 25 ≤ 50 % w/w
NOTE FOR DISPOSAL	: Disposal should be in accordance with local, State or National requirements. 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: 0845 9333111.

#### 14. TRANSPORT INFORMATION (International unless otherwise indicated)

<u>UN NUMBER</u> : UN2693	<u>UK HAZCHEM EAC</u> : 2X	<u>ADR HIN</u> : 80
<u>UK CDGRoad Transport Category</u> : 2	<u>Tremcard Reference No.</u> : CEFIC TEC (R)- 80G20	<u>IMDG EMS</u> : 8-08
<u>UK CDGCPL2 CARRIAGE</u> :		
CLASS :	8	
PROPER SHIPPING NAME :	Bisulphites, Aqueous Solution, N.O.S. (contains sodium hydrogen sulphite)	
PACKING GROUP :	III	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 1litre. Maximum quantity per outer package is 30kg.	
SPECIAL REQUIREMENTS :	Not required.	
LABELS :	Corrosive diamond unless carried under Limited Quantity Exemptions.	
<u>IMDG 2000 (SEA) CARRIAGE</u> :		
CLASS :	8	
PROPER SHIPPING NAME :	Bisulphites, Aqueous Solution, N.O.S. (contains sodium hydrogen sulphite)	
PACKING GROUP :	III	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 1litre. Maximum quantity per outer package is 30kg. Combination packs only.	
SPECIAL REQUIREMENTS :	Not required.	
LABELS :	Corrosive diamond unless carried under Limited Quantity Exemptions.	
<u>ADR 2001 (ROAD) CARRIAGE</u> :		
CLASS :	8	
PROPER SHIPPING NAME :	Bisulphites, Aqueous Solution, N.O.S. (contains sodium hydrogen sulphite)	
PACKING GROUP :	III	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 3 litres. Maximum quantity per outer package is 12 litres. Combination packs only.	
SPECIAL REQUIREMENTS :	Not required.	
LABELS :	Corrosive diamond unless carried under Limited Quantity Exemptions.	

#### 15. REGULATORY INFORMATION

INDICATION OF DANGER	HEALTH AND SAFETY INFORMATION (see also box 2)
<b>X<sub>n</sub> – HARMFUL</b> :	R22 : Harmful if swallowed. R31 : Contact with acids liberates toxic gas.
SAFETY PHRASES :	S46 : If swallowed, seek medical advice immediately and show this container or label . S60 : This material and its container must be disposed of as hazardous waste.
LEGISLATION :	This product is classified, in the UK, under The Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002 (CHIP 3), as dangerous for supply. This product is classified, in the UK, under the Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles CDGCPL2 Regulations 1996, as dangerous for carriage.

#### 16. OTHER INFORMATION and indication of revisions

This product is to be used in accordance with the label and Rentokil Hygiene Technical Manual.
The information given on this Safety Data Sheet (SDS) <b>does not</b> constitute an assessment in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations 1999.
Changes have been made to the content of boxes 2, 3, 8, 11, 12, 13, 14 , 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 04

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<b>Before using any product, ensure that you read and understand its label.</b> 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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