

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

PRODUCT NAME: **BW400**
CHEMICAL IDENTITY: Sodium bi-sulphite (uncatalysed)
RECOMMENDED USE: Steam boiler treatment

1.2
Hydraguard Limited
Rose Croft
Newton on Rawcliffe
Pickering
North Yorkshire
YO18 8QE

Tel No: **01751 475964**

2. HAZARDS IDENTIFICATION

Harmful if swallowed. Contact with acids liberates toxic gas.
Classification : Xn;R22. R31

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No	CAS No	Content	Classification
SODIUM BI-SULPHITE	231-548-0	7631-90-5	30-60%	Xn;R22. R31

4. FIRST AID MEASURES

Inhalation: Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

Ingestion: Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Get medical attention immediately!

Skin Contact: Remove affected person from source of contamination. Remove contaminated clothes and rinse skin thoroughly with water. Get medical promptly if symptoms occur after washing.

Eye Contact: Remove victim immediately from source of exposure. Immediately rinse with water for several minutes. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES

Extinguishing Media: This product is not flammable. Use fire-fighting extinguishing media appropriate for surrounding materials.

Unusual Fire & Explosion Hazards: No unusual fire or explosion hazard

Specific Hazards: In combustion emits toxic fumes of sulphur oxides. Keep containers exposed to fire cool with water spray. The product does not support combustion.

Protective Measures in Fire: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE METHODS

Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental Precautions: Do not allow to enter water course or drains.

Spill Clean up Methods: Absorb in vermiculite, dry sand or earth and place into containers. Transfer to a closable labelled salvage container for disposal by an appropriate method. Flush with plenty of water to clean spillage area.

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7. HANDLING AND STORAGE:	
Usage Precautions:	Avoid spilling, skin and eye contact. Avoid eating, drinking and smoking when using the product. Persons susceptible for allergic reactions should not handle this product.
Storage Precautions:	Keep upright. Store in tightly closed original container in a dry and cool place.
Storage Class	Chemical storage

8. EXPOSURE CONTROLS	
For decomposition product,:	Sulphur Dioxide, the following levels apply: OEL (8 hr TWA): 2 ppm (5.3 mg/m-3) OEL (15 min reference): 5ppm (13 mg/m-3)
Protective Equipment	Wear approved safety goggles or face shield and protective gloves.
Process Conditions	Use engineering controls to reduce air contamination to permissible exposure level
Respiratory Equipment	If ventilation is insufficient, suitable respiratory protection must be provided
Hand Protection:	Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Eye Protection:	Wear approved safety goggles.
Other Protection:	Wear suitable protective clothing as protection against splashing or contamination
Hygiene Measures:	Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Liquid
Colour	Yellow to amber
Odour	Sulphur Dioxide (SO ₂)
Solubility	Miscible in all proportions
Oxidising	Non-oxidising by EC criteria
Relative Density	~1.35 g/ml
pH Value, Conc solution	~ 5

10. STABILITY AND REACTIVITY	
Stability	Stable under normal temperature conditions and recommended use
Conditions to Avoid	Direct sunlight. Extremes of temperature. Avoid excessive heat for prolonged periods of time. Low temperatures and frost.
Materials to Avoid	Acids. Oxidising agents
Hazardous Decomposition Products	Contact with acids liberates toxic fumes of sulphur dioxide.

11. TOXICOLOGICAL INFORMATION	
Inhalation	May cause irritation to the respiratory system.
Ingestion	Harmful if swallowed. May cause stomach pain or vomiting
Skin Contact	May cause sensitisation by skin contact. Liquid may irritate skin.
Eye Contact	May cause mild irritation to eyes. Splashes may irritate.

12. ECOLOGICAL INFORMATION	
Ecotoxicity	This product is not expected to be hazardous to the environment. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Degradability	Biodegradable.

13. DISPOSAL CONSIDERATIONS	
Disposal Methods	Dispose of waste and residues in accordance with local authority requirements. Do not mix with other waste chemicals.
Container	Triple rinse empty container thoroughly with water before disposal.

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14. TRANSPORT INFORMATION LAND TRANSPORT

UN Road Class	8		
Proper Shipping Name	BISULPHITES, AQUEOUS SOLUTION		
UN No. Road	2693	UK Road Packing Group:	III
ADR Class No.	8	ADR Class:	Class 8: Corrosive substances
ADR Pack Group	III	ADR Label:	8
Hazard ID No	80	Hazchem Code	
RID Class No.	8	RID Pack Group	III
UN No Sea	2693	IMDG Class	8
IMDG Pack Gr.	III	EMS	F-A, S-B
MFAG	See Guide	Marine Pollutant	No.
UN No. Air	2693	ICAO Class	8
Air Pack Gr	III		

15. REGULATORY INFORMATION

Labelling	Harmful
Contains	Cobalt Nitrate Hexahydrate <10% SODIUM BI-SULPHITE
Risk Phrases	R22 Harmful if swallowed R31 Contact with acids liberates toxic gas R43 May cause sensitisation by skin contact
Safety Phrases	S24 Avoid contact with skin S25 Avoid contact with eyes S37 Wear suitable gloves S46 If swallowed, seek medical advice immediately and show this container label. S60 This material and its container must be disposed of as hazardous waste.
UK Regulatory References Approved Code of Practice	Chemicals (Hazard Information & Packaging) Regulations Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

16. OTHER INFORMATION

Revision Date:	3-2008
Risk Phrases in Full	R25 Toxic if swallowed R35 Causes severe burns R36/37/38 Irritating to eyes, respiratory system and skin R50 Very toxic to aquatic organisms R8 Contact with combustible material may cause fire
Additional information	For decomposition product, Sulphur Dioxide, the following levels apply: OEL (8 hr TWA): 2 ppm (5.3 mg/m-3) OEL (15 min reference): 5ppm (13 mg/m-3)

DISCLAIMER

This data sheet does not constitute a User's Assessment of Workplace Risk as required by HSW Act, COSHH, Management of Health and Safety at Work Regulations, or other Health and Safety Legislation. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.