

BOILER SOLUTION

PRODUCT NAME: BWTS45

DATE ISSUE: 10th March 2025

REFERENCE NO: VERSION 25.03

REPLACES: 16th June 2020

PRODUCT IDENTIFIER:	BTWS45
SUPPLIER NAME:	UDS PTY LTD
ADDRESS:	3 SPIRETON PLACE PENDLE HILL NSW 2145
TELEPHONE:	02 9688 2022
RECOMMENDED USE:	A BOILER WATER PRODUCT FOR CORROSION AND SCALE CONTROL

2. HAZARD IDENTIFICATION

Classification of the substance or mixture	Classified as Hazardous according to the criteria of GHS. Classified as Dangerous Goods according to ADG Code. This material is classified as HAZARDOUS according to the criteria of Safe Work Australia. Classification: Acute Toxicity (Oral) – Category 4 Skin Corrosion – Category 1A Eye Damage – Category 1	
Signal Word(s)	Danger	
Hazard Statement(s)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.	
Pictogram(s)		
Precautionary Statement – Prevention	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement – Response	P363	Wash contaminated clothing before reuse.
	P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower.
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Precautionary Statement – Storage	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P405	Store locked up.
Precautionary Statement – Disposal	P501	Dispose of contents/container to an approved waste disposal plant.
Other Information	Some individuals are said to be dangerously sensitive to minute amounts of	

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sulphites in foods and some bronchodilator medicines preserved with sulphites. Symptoms may include bronchoconstriction, shock, gastrointestinal disturbances, angio oedema, flushing and tingling sensations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Ingredients	Name	CAS	Proportion
	Potassium Hydroxide	1310-58-3	10-30 %
	Acrylic Polymer	Propriety information	1-10 %
	Sodium Sulphite	7757-83-7	10-30 %
	Water	7732-18-5	30-60 %

4. FIRST AID MEASURES

Inhalation	Remove the source of contamination or move the victim to fresh air. If breathing is difficult, ensure airways are clear and have qualified person give oxygen through a face mask. If symptoms develop, seek medical attention.
Ingestion	If swallowed, give 2 glasses of water to drink. IMMEDIATELY call a physician. Never give anything by mouth to an unconscious person.
Skin	Wash affected skin areas thoroughly with soap and water. Remove and wash contaminated clothing thoroughly. DO NOT take clothing home to be laundered. Discard contaminated shoes, belts and other articles made of leather. Get prompt medical attention.
Eye Contact	IMMEDIATELY flush eye(s) copious amount of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.
Advice to Doctor	MATERIAL IS CORROSIVE. Mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water, foam, carbon dioxide or dry chemical
Hazard from Combustion Products	Product is non-flammable.
Specific Hazards	Combustion products – Carbon dioxide, carbon monoxide and oxides of phosphorus and sulphur
Precautions	Fire-fighters use Self-Contained Breathing Apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Personal Protection: Wear an AS1716 approved (or equivalent) positive pressure self-contained breathing apparatus or a full-face piece airline respirator in the positive pressure mode with emergency escape provisions. Wear compatible, chemically resistant gloves. MATERIAL IS CORROSIVE. If exposed to material during clean-up operations IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See FIRST AID PROCEDURES Section for further information. Protective clothing made of the following material should be worn to avoid skin contact: Plastic rain jackets and pants. - Butyl rubber, Nitrile or PVC Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when
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Clean-up & Disposal	possible. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible material, such as saw dust. Wash residue to sewer. For large spills, confirm with appropriate water authority. Discharge, treatment and disposal may be subject to federal, state or local laws and these should be consulted before discharge.
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7. HANDLING AND STORAGE

Safe Handling	In use avoid contact with chemical listed as hazardous reactions.
Safe Storage	Store away from oxidising agents and acids. Store in a dry place avoiding iron containers. Keep in a cool dry place (0 to 30 °C). Keep away from sources of ignition. Freezing will affect the physical condition and may damage the material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Use local exhaust if misting occurs. Natural ventilation is adequate in the absence of mists. Exposure standards for the decomposition products are: <table><tr><td>Material</td><td>TWA</td><td>STEL</td></tr><tr><td>Potassium Hydroxide (dust)</td><td>2 mg/m³</td><td>12 hrs peak limitation</td></tr></table>	Material	TWA	STEL	Potassium Hydroxide (dust)	2 mg/m ³	12 hrs peak limitation
Material	TWA	STEL					
Potassium Hydroxide (dust)	2 mg/m ³	12 hrs peak limitation					
Biological Limit Values	The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Use this general information to help develop specific control measures. Ensure that control systems are properly designed and maintained and comply with occupational, environmental, fire, and other applicable regulations.						
Engineering Controls	No biological limit allocated. A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.						
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure, then a half face piece respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.						
Eye Protection	Safety glasses or goggles should be worn as described in Australian Standard AS/ANZ 1337, Eye Protectors for Industrial Applications.						
Hand Protection	Butyl, neoprene or nitrile gloves are recommended when using this product.						
Body Protection	Suitable workwear should be worn to protect personal clothing. When large quantities are handled, the use of plastic aprons and rubber boots is recommended.						

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear pale amber liquid
Boiling Point	Approximately 100 °C
Melting Point	Not applicable
Solubility in Water	Soluble