

PRODUCT NAME: **BOILER SOLUTION BWTS45**

DATE ISSUE: 16 JUNE 2020

REFERENCE NO: VERSION 20.02

REPLACES: 13 JULY 2016

Supplier	UDS PTY LTD
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Emergency	NSW Poisons Information Centre 13 11 26
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Web Site	www.universaldrycleaningsolutions.com.au

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.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary Statement – Storage	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	

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	<p>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.</p> <ul style="list-style-type: none"> - Butyl rubber, Nitrile or PVC <p>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</p>
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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.

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:

Material	TWA	STEL
Potassium Hydroxide (dust)	2 mg/m ³	12 hrs peak limitation

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.

Biological Limit Values No biological limit allocated.
Engineering Controls 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

Specific Gravity	1.10 to 1.30 at 20 °C approximately
pH Value	12.00 to 14.00
Vapour Pressure	No data
Vapour Density (Air=1)	No data
Flash Point	Does not flash
Flammability	Does not ignite
Ignition Temperature	Not applicable
Flammable Limits (Lower)	Not applicable
Flammable Limits (Upper)	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal ambient.
Conditions to Avoid	Avoid excessive heat, direct sunlight, generating dust, moisture, static discharges, open flame and high temperatures.
Incompatible Materials	Oxidising materials and acids. May cause exothermic reaction, explosions and release of toxic gases. Wide variety of materials including many metals, ammonium compounds, cyanides, acids, nitro compounds, phenols, combustible organics.
Hazardous Decomposition Products	Emits toxic gases.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	As potassium hydroxide: Acute oral toxicity rat: LD ₅₀ , 40 mg/kg. Acute skin irritation rabbit: LD ₅₀ , 500 mg/ 24h (severe) Very corrosive. Causes severe burns. As sodium sulphite: Acute oral toxicity rat: LD ₅₀ , 820 mg/kg.
Inhalation	Severe irritant. Effects from inhalation of dust or mist may vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur.
Ingestion	Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhoea, fall in blood pressure. Although only moderately toxic in large amounts, sulphites can pose risk to some asthmatics producing central nervous system depression, bronchoconstriction and anaphylaxis. Damage may appear days after exposure.
Skin	Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.
Eye	Eye contact will cause severe burns and permanent eye damage.
Chronic Health Effects	Long term exposure may result in dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available on ecotoxicity for this product.
Persistence/Degradability	Readily biodegradable.
Mobility	No information available on mobility for this product.
Bioaccumulative Potential	No information available on bioaccumulation for this product.

Environmental Protection Do not allow it to enter waterways. The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Method Neutralise with 10 % solution of acetic acid or sulphuric solution at pH 7 and rinse empty containers with water. If pH is lowered below 7, oxides of sulphur gases may be generated. Can be land filled or incinerated, when in compliance with local regulations. For large quantities, notify your local waste management authority for specific regulations.

14. TRANSPORT INFORMATION

Transport Information Classified as dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

UN Number 1719

UN Proper Shipping Name CAUSTIC ALKALI LIQUID, N.O.S.

Class 8

Hazchem Group 2R

Packaging Group III

Special Precautions Store in tightly closed containers in a cool area separated from normal work areas. The storage area should have adequate independent ventilation and have no sources of heat or sparks. DO NOT load with Class 1, 4.2, 5.1, 5.2, 7 or 8.

15. REGULATORY INFORMATION

Poisons Schedule Number Not scheduled.

Packaging and Labelling As required by the ADG Code and Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

The ingredients contained in this product listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Date Prepared 16th June 2020

Abbreviations GHS – Globally Harmonised System of Classification and Labelling of Chemicals
 ADG – Australian code for the Transport of Dangerous Goods by Road and Rail
 TWA – Time Weighted Average
 STEL – Short Term Exposure Limit
 LD₅₀ (Lethal Dose) – Amount of ingested product that kills 50% of a test sample.

Others This information summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider this information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

...END OF SDS...