

HYDRAGUARD LIMITED

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

PRODUCT NAME: **BW100**
CHEMICAL IDENTITY: Aqueous solution of cyclohexylamine
RECOMMENDED USE: Neutralizing amine

1.2
Hydraguard Limited
Rose Croft
Newton on Rawcliffe
Pickering
North Yorkshire YO18 8QE
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2. HAZARDS IDENTIFICATION

Causes burns. Harmful in contact with skin and if swallowed
Classification : Xn; R21/22 C; R34

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No	CAS No	Content	Classification
CYCLOHEXYLAMINE	203-629-0	108-91-8	10-30%	R10 C;R34 Xn;R21/22

The full text for all R-Phrases are Displayed in Section 16

4. FIRST AID MEASURES

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion: DO NOT INDUCE VOMITING! 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 attention immediately.
Eye Contact: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish with carbon dioxide or dry powder.
Specific Hazards: By fire, toxic gases may be formed (CO₂, NO₂).
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: Avoid discharge to the aquatic environment.
Spill Clean up Methods: DO NOT TOUCH SPILLED MATERIAL! Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water to clean spillage area.

7. HANDLING AND STORAGE:

Usage Precautions: Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Provide good ventilation. Avoid eating, drinking and smoking when using the product.
Storage Precautions: Keep upright. Store in tightly closed original container in a dry and cool place. Store under well-ventilated conditions at a temperature below 25°C.
Storage Class: Corrosive storage

HYDRAGUARD LIMITED

8. EXPOSURE CONTROLS	Name	Std	LT – ppm	LT – mg/m3	ST – ppm	ST – mg/m3
	CYCLOHEXYLAMINE	OES	10 ppm			
Ingredient comments	OES = Occupational Exposure Standard					
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 or face shield.					
Skin Protection	Wear apron or protective clothing in case of contact					
Other Protection:	Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.					
Hygiene Measures:	DO NOT SMOKE IN WORK AREA! 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	Clear Liquid				
	Colour	Colourless				
	Odour	Fishy				
	Solubility	Miscible with water				
	Relative Density	0.95 – 1.00				
	pH Value, Conc solution	12.0 – 13.0				
10. STABILITY AND REACTIVITY	Stability	Stable under normal temperature conditions and recommended use.				
	Conditions to Avoid	Avoid heat, flames and other sources of ignition.				
	Materials to Avoid	Acids				
11. TOXICOLOGICAL INFORMATION	Toxic Dose 1 – LD50	56 mg/kg (oral rat)				
	Inhalation	Inhalation of spray mists may cause irritation.				
	Ingestion	Harmful if swallowed. Causes burns. May cause severe internal injury.				
	Skin Contact	Harmful in contact with skin. Causes burns. Corrosive. Prolonged contact causes serious tissue damage.				
	Eye Contact	Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.				
12. ECOLOGICAL INFORMATION	Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.				
13. DISPOSAL CONSIDERATIONS	General Information	Waste is classified as special waste.				
	Disposal Methods	Dispose of waste and residues in accordance with local authority requirements				

HYDRAGUARD LIMITED

14. TRANSPORT INFORMATION

LAND TRANSPORT

UN Road Class	8		
Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (contains cyclohexylamine)	3, III	
UN No. Road	2735	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	2R
RID Class No.	8	RID Pack Group	III
CEFIC TEC® No	80GC3-II+III, 80GC2-II+III		
UN No Sea	2735	IMDG Class	8
IMDG Pack Gr.	III	EMS	F-A, S-B
MFAG	See Guide	Marine Pollutant	No.
UN No. Air	2735	ICAO Class	8
Air Pack Gr	III		

15. REGULATORY INFORMATION

Labelling	Corrosive Contains Cyclohexylamine
Risk Phrases	R34 Causes burns R21/22 Harmful in contact with skin and if swallowed
Safety Phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical Advice S23 Do not breathe vapour/spray S24/25 Avoid contact with skin and eyes S36/37/39 Wear suitable protective clothing, gloves and eye/face protection S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S51 Use only in well ventilated areas. S60 This material and its container must be disposed of as hazardous waste.
UK Regulatory References	Chemicals (Hazard Information & Packaging) Regulations
Approved Code of Practice	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	R10 Flammable R21/22 Harmful in contact with skin and if swallowed R34 Causes burns

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.