

SAFETY DATA SHEET

BW 2333

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME BW 2333
CHEMICAL NAME Amine Blend
PRODUCT NO. 101062, 101139
APPLICATION Industrial Water Treatment
SUPPLIER Hydraguard Limited
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Newton on Rawcliffe
Pickering
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2 HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed.
Causes burns.
Possible risk of impaired fertility.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
CYCLOHEXYLAMINE	203-629-0	108-91-8	10-30%	Xn;R21/22. Repr. Cat. 3;R62. C;R34. R10.
DIETHYLHYDROXYLAMINE	223-055-4	3710-84-7	10-30%	Xn;R20/21. Xi;R36/37/38. R10.
MORPHOLINE	203-815-1	110-91-8	10-30%	R10 C;R34 Xn;R20/21/22

The Full Text for all R-Phrases is Displayed in Section 16

COMPOSITION COMMENTS

Mixture of Amines

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Rinse mouth thoroughly. Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

BW 2333**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Fire can be extinguished using: Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. Foam. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

PROTECTIVE MEASURES IN FIRE

Leave danger zone immediately. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. To prevent release, place container with damaged side up.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid inhalation of vapours/spray and contact with skin and eyes. Observe good chemical hygiene practices.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. Store away from: Acids. Oxidising material.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
MORPHOLINE	WEL	10 ppm	36 mg/m ³	20 ppm	72 mg/m ³	

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**PROCESS CONDITIONS**

Provide eyewash station.

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ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

Wear protective gloves.

Breakthrough time is dependent on the characteristics of the brand of glove used, consult your supplier.

Gloves should be replaced immediately if signs of degradation are observed.

It has been found that gloves made from rubber, neoprene or PVC provide short-term splash protection.

EYE PROTECTION

Wear approved safety goggles.

Use face shield in case of splash risk.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

Promptly remove any clothing that becomes contaminated. Work in accordance with good industrial practice of the chemical industry. When using do not eat, drink or smoke.

SKIN PROTECTION

Wear apron or protective clothing in case of contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Coloured liquid.
COLOUR	Yellow.
ODOUR	Amine.
SOLUBILITY	Miscible with water
RELATIVE DENSITY	0.95 - 1.05 @ 20 °C
pH-VALUE, CONC. SOLUTION	12 - 13

FLASH POINT (°C) 85 PM Closed cup.

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

MATERIALS TO AVOID

Strong acids. Strong alkalis. Strong oxidising substances.

11 TOXICOLOGICAL INFORMATION

INHALATION

Harmful by inhalation. May cause irritation to the respiratory system.

INGESTION

Harmful if swallowed.

SKIN CONTACT

Harmful in contact with skin. Causes burns.

EYE CONTACT

Risk of serious damage to eyes. Causes burns.

BW 2333**HEALTH WARNINGS**

This chemical may cause skin/eye irritation and burns (corrosive).

ROUTE OF ENTRY

Skin and/or eye contact. Ingestion. Inhalation.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

No information available.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

DISPOSAL METHODS

Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains cyclohexylamine)
CLASSIFICATION CODE (ADR)	C7
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE	No.
UN NO. ROAD ADR CLASS	3267 Class 8: Corrosive substances.
HAZARD NO. (ADR)	80 Corrosive or slightly corrosive substance.
UN NO. SEA IMDG CLASS	3267 8
IMDG PACK GR.	III
EMS	F-A, S-B
UN NO. AIR AIR CLASS	3267 8
AIR PACK GR.	III

15 REGULATORY INFORMATION**LABELLING**

BW 2333

Corrosive



Harmful

CONTAINSCYCLOHEXYLAMINE
MORPHOLINE**RISK PHRASES**

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R62	Possible risk of impaired fertility.

SAFETY PHRASES

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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.

STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

16 OTHER INFORMATION**REVISION COMMENTS**

Revised classification.

ISSUED BY

A.F.S.

REVISION DATE

September 8th, 2011

REV. NO./REPL. SDS GENERATED 4**SAFETY DATA SHEET STATUS**

Approved.

DATE

September 8th, 2011

RISK PHRASES IN FULL

R34	Causes burns.
R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R62	Possible risk of impaired fertility.

DISCLAIMER

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.