

# SAFETY DATA SHEET

DIETHANOLAMINE <88% AQ

Page 1 Issued: 06/04/2014 Revision No: 1

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

Product:
Use:
Company name:

DIETHANOLAMINE <88% AQ Industrial use, anti-corrosion agent, raw material for gas scrubbers Nexchem Ltd PO Box 9972 Leicester Leicestershire LE3 7DA Tel: 0116 2311130 Fax: 0116 2311124 Emergency Tel: +44 (0) 116 2877916 or +44 (0) 7714 303742 (24 Hours) Email: sales@nexchem.co.uk

### 2. HAZARDS IDENTIFICATION

Preparation Of the Base:	2,2'-iminodiethanol; diethanolamine
Content:	<88%
CAS No.:	111-42-2
Index No.:	603-071-00-1
EC No.:	203-868-0
Symbol(s):	Xn
R Phrase(s):	R22, 38, 41, 48/22
For full text of the R Phrases mentioned	in this Section. See Section 16

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Main Hazards:

Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

### 4. FIRST AID MEASURES (SYMPTOMS)

General Advice:	Take off all contaminated clothing immediately. In the case of accident or if you fee	el unwell,
	seek medical advice immediately (show the label where possible).	
First Aid – Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physicia	an.
First Aid – Skin:	Wash off immediately with plenty of water for at least 15 minutes. Take off all contain	aminated
	clothing immediately. Consult a physician.	
First Aid – Ingestion:	Do not induce vomiting. Call a physician immediately.	
First Aid – Inhalation:	Remove from exposure, lie down. If breathing is irregular or stopped, administer a	rtificial
	respiration. Monitor breathing, give oxygen if necessary. Consult a physician.	[cont]

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### **5. FIRE-FIGHTING MEASURES**

Extinguishing Media:	Water spray, dry powder, foam, carbon dioxide (CO2)
Further Information:	Standard procedure for chemical fires

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment.
Environmental Precautions:	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
Methods For Clean Up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,
	sawdust).

#### 7. HANDLING AND STORAGE

 Safe Handling Advice:
 Wear personal protective equipment. Avoid contact with skin and eyes

 Advice On Protection Against Fire And Explosion:
 No special protective measures against fire required

 Storage:
 Storage:

Storage Classification (VCI system/Germany): 10-13 German Storage Class 10 to 13

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limits:

2,2'iminodiethanol:diethanolamine: 13 mg/m3 3ppm TWA EH40 OES 2003

Personal Protective Equipmen:

 Respiratory Protection:
 No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

Hand Protection:The choice of appropriate glove does not only depend on its material but also on other<br/>quality features and is different from one producer to the other. Please observe the instructions<br/>regarding permeability and break through time which are provided by the supplier of the gloves.<br/>Also take into consideration the specific local conditions under which the product is used,<br/>such as the danger of cuts, abrasions and the contact time. Be aware that in daily use the<br/>durability of a chemical resistant protective glove can be notably shorter than the break through<br/>time measured according to EN 374, due to the numerous outside influences (e.g.<br/>temperature).

Gloves suitable For Permanent Contact: Material: Nitrile rubber/nitrile latex Break through time: >=480 min Material thickness: 0.35 mm Material: Butyl rubber Break through time: >=480 min Material thickness: 0.5 mm

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Eye Protection:	Tightly fitting safety goggles
Skin Protection:	Protective suit
Hygiene Measures:	Take off all contaminated clothing immediately. Use barrier cream regularly
Protective Measures:	Wear suitable gloves and eye/face protection. Avoid contact with the skin and the eyes.
	General industrial hygiene practice

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Slight ammoniacal
pH:	Ca. 11: 20oC
Melting Point/Range:	<00C
Boiling Point/Range:	115 – 130oC
Flash Point:	>100oC
Ignition Temperature:	>300oC DIN 51794
Vapour Pressure:	10 – 15 hPa: 20oC
Density:	ca. 1.1 g/cm3; 30oC
Water Solubility:	Completely miscible
Partition Co Efficient (n-octanol/w	vater): Log Pow -1.43
Viscosity, Dynamic:	160 – 400 mPa. S; 20oC

## 10. STABILITY AND REACTIVITY

Hazardous Decomposition:	Products No decomposition if stored normally
11. TOXICOLOGICAL INFOR	MATION
Acute Oral Toxicity:	2'2-iminodiehtanol; diethanolamine: LD50 rat: 200 – 2000 mg/kg (literature value)
Acute Dermal Toxicity:	2'2-iminodiehtanol; diethanolamine: LD50 rabbit: >2000 mg/kg (literature value)
Skin Irritation:	2,2'-iminodiethanol; diethanolamine: rabbit; irritating (literature value)
Eye Irritation:	2,2'-iminodiethanol; diethanolamine: rabbit: Risk of serious damage to eyes; OECD Test Guideline 405 (literature value)
Sensitisation:	2,2'-iminodiethanol; diethanolamine: Patch-Test guinea pig: not sensitising: (literature value)
Genotoxicity In Vitro:	2,2'-iminodiethanol; diethanolamine: Ames test: not mutagenic: OECD TG 471 (literature value)

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### 12. ECOLOGICAL INFORMATION

**Biodegradability:** 2,2'-iominodiethanol; diethanolamine; inherently biodegradable; 98% 9d OECD Guideline 302B (literature value)

**Ecotoxicity Effects:** 2,2'-iminodiethanol; diethanolamine; Readily biodegradable; >70% 5d OECD Guideline 301A (new version) (literature value)

**Toxicity To Fish:** 2,2'-iminodiethanol; diethanolamine: LC50 Leuciscus idus: >100 mg/l 48h OECD Test Guideline 203, Paris, 1981 (literature value)

**Toxicity To Daphnia:** 2,2'-iminodiethanol; diethanolamine: EC50 Daphnia Magna: >100 mg/l 48h (literature value)

13. DISPOSAL CONSIDERATIONS	

**Product Disposal:** Can be incinerated when in compliance with local regulations.

Waste Code Of The European Union: EWC: A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. In agreement with the waste code must be determined regional waste disposal authority or company.

### **14. TRANSPORT INFORMATION**

Not regulated.

### **15. REGULATORY INFORMATION**

EC Classification: Hazard symbol:	Harmful Xn
R phrases:	R22: Harmful if swallowed R38: Irritating to skin R41: Risk of serious damage to eyes R48/22: Also harmful: danger of serious damage to health by prolonged exposure if swallowed
S phrases:	S24: Avoid contact with the skin 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

Hazardous Component Which Must Be Listed on The Label: 2,2'-IMINODIETHANOL; DIETHANOLAMINE National Legislation Occupational Restrictions: Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

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# Directive 96/82/EC on the control of major accident hazards involving dangerous substances: Employment restrictions for pregnant workers, workers who have recently given birth and nursing mothers in accordance with Directive 92/85/EEC and the respective national provisions are to be observed, List entry in the directive: Directive 96/82/EC does not apply

Note:

The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### **16. OTHER INFORMATION**

Text of R Phrases Mentioned In Section 2 R22 Harmful if swallowed R38 Irritating to skin R41 Risk of serious damage to eyes R48/22 Harmful: Danger of serious damage to health by prolonged exposure if swallowed The Safety Data Sheets have been revised in Sections 1, 8 and 15. The Specification remains the same.

#### Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.