## **DIETHANOLAMINE AR MSDS**

### CAS No: 111-42-2 MSDS



### MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identificatio	n of the substanc	e/mixture and of the company/undertaking	
1.1. Product identifie	er		
Product form		: Substance	
EC index no		: 603-071-00-1	
EC no		: 203-868-0	
CAS No		: 111-42-2	
Product code		: 00098	
Formula		: C4H11NO2	
Chemical structure			
		HONOH	
Synonyms		: Bis(2-hydroxyethyl)amine / 2,2'-Iminodiethano	
1.2. Relevant identif	ied uses of the su	bstance or mixture and uses advised against	
1.2.1. Relevant identif	ied uses		
Use of the substance/mixt	ure	: Laboratory chemicals, Manufacture of substances	
<b>1.3.</b> Details of the su Labogens Fine Chem Indu 1st Floor , Above Bank of Ludhiana Pb. (141007) +91 9316777775, +91 77( sales@labogens.com	India, Guru Vihar , )7855700	Rahon Road,	
1.4. Emergency tele	phone number		
Emergency number		: +91 7707855700 (9:00am - 6:00 pm)	
SECTION 2: Hazards ide	ntification		
2.1. Classification of	f the substance o	mixture	
Classification according	to Regulation (E	C) No. 1272/2008 [CLP]	
Serious eye damage/eye irritation, Category 1			
Acute toxicity (oral),	H302		
Category 4 Skin corrosion/irritation,	H315		
Category 2 Specific target organ toxicity — Repeated exposure, Category 2	H373		
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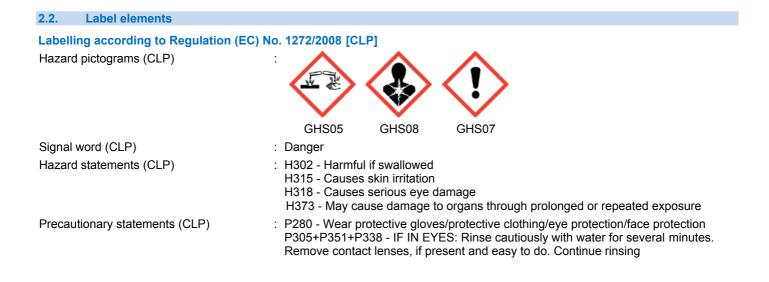
Full text of classification categories and H statements : see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22 Xn; R48/22 Xi; R41 Xi; R38 Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available



#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

3.1. Substance	
Name	: DIETHANOLAMINE AR
CAS No	: 111-42-2
EC no	: 203-868-0
EC index no	: 603-071-00-1

Full text of R- and H-phrases: see section 16

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#### 3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label).
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
E 2 Created becaude arising from the	
5.2. Special hazards arising from the No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measures	S
6.4 Dereand pressutions, protective	a continuent and amore any procedures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Do not breathe vapours.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4. Reference to other sections	
No additional information available	

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<b>SECTION 7: Handling and stora</b>	ge	
7.1. Precautions for safe ha	ndling	
Precautions for safe handling	: Avoid breathing dust/fume/gas/mist/vapours/spray.	
Hygiene measures	<ul> <li>Do not eat, drink or smoke when using this product. Wash thoroughly after handling.</li> </ul>	
7.2. Conditions for safe stor	rage, including any incompatibilities	
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry place.	
7.3. Specific end use(s)		
No additional information available	e	
SECTION 8: Exposure controls/	personal protection	
8.1. Control parameters		
No additional information available		

8.2. Exposure controls		
Hand protection	: protective gloves	
Eye protection	: Chemical goggles or safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: Wear respiratory protection	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical a	nd chemical properties	
Physical state	: Liquid	
Molecular mass	: 105.14 g/mol	
Colour	: Clear Colorless.	
Odour	: ammonia odor.	
Odour threshold	: No data available	
pH	: 11 - 12 at 105 g/l at 25 °C	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 28 °C	
Freezing point	: No data available	
Boiling point	: 217 °C	
Flash point	: 138 °C	
Auto-ignition temperature	: 365 °C	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: < 0.01 mm Hg @ 200C	

<ul> <li>No data available</li> <li>1.097 g/ml at 25 °C</li> </ul>
-
: Water: 105 g/l at 20 °C - completely soluble
: -2.18
: No data available
: 0.016 - 0.106 vol %
actions
products
tion
al effects
: Oral: Harmful if swallowed.

Skin conosion/imtation	. Causes skin initation.
	pH: 11 - 12 at 105 g/l at 25 °C
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 11 - 12 at 105 g/l at 25 °C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

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Salely Dala Sheel	
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
DIETHANOLAMINE AR (111-42-2)	
Log Pow	-2.18
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	nent
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA	/ ADN
14.1. UN number	
UN-No. (ADR)	Not applicable

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UN-No. (RID)       : Not applicable         Proper Shipping Name (ADR)       : Not applicable         Proper Shipping Name (IMDG)       : Not applicable         Proper Shipping Name (IATA)       : Not applicable         Proper Shipping Name (ADN)       : Not applicable         Proper Shipping Name (RID)       : Not applicable         Ital.       Transport hazard class(es)         ADR          Transport hazard class(es) (ADR)       : Not applicable         IMDG          Transport hazard class(es) (IMDG)       : Not applicable         ADN          Transport hazard class(es) (IATA)       : Not applicable         ADN          Transport hazard class(es) (ADN)       : Not applicable         ADN          Transport hazard class(es) (RID)       : Not applicable         Packing group (MDG)       : Not applicable         Packing group (MDG)       : Not applicable         Packing group (ADR)       : Not applicable         Packing group (MDG)       : Not applicable		
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14.5. Environmental hazards         Dangerous for the environment       : No         Marine pollutant       : No		
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Dangerous for the environment: NoMarine pollutant: No	14.5. Environmental hazards	
Marine pollutant : No		: No
	-	
	-	: No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

- Air transport No data available

#### - Inland waterway transport No data available

#### - Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

### Not applicable

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### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions DIETHANOLAMINE AR is not on the REACH Candidate List DIETHANOLAMINE AR is not on the REACH Annex XIV List

#### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 77)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product

# **15.2.** Chemical safety assessment No additional information available

SECTION 16: Other information

#### Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H373	May cause damage to organs through prolonged or repeated exposure
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
Xi	Irritant

Safety Data Sheet

Xn

Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product