## **DIETHANOLAMINE AR MSDS**

# CAS No: 111-42-2 MSDS



## **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
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	:

но ∼<sub>N</sub>~~<sup>OH</sup>

Synonyms

: Bis(2-hydroxyethyl)amine / 2,2'-Iminodiethano

1.2.	Relevant identified uses of the substance or mixture and uses advised against			
1.2.1.	Relevant identified uses			
Use of	the substance/mixture	: Laboratory chemicals, Manufacture of substances		
1.2.2.	Uses advised against			
No add	itional information available			

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14, SKY INDUSTRIAL ESTATE, WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

## **SECTION 2: Hazards identification**

2.1. Classification of	the substance or mixture	
Classification according	to Regulation (EC) No. 1272/2008 [CLP]	
Serious eye damage/eye irritation, Category 1	H318	
Acute toxicity (oral), Category 4	H302	
Skin corrosion/irritation, Category 2	H315	
Specific target organ toxicity — Repeated exposure, Category 2	H373	
www.spanlab.in		09/04/2015

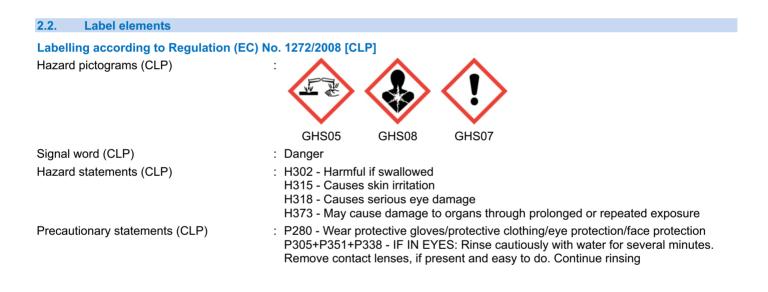
Safety Data Sheet

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

Safety Data Sheet

## 3.2. Mixture

Not applicable

SECTION 4: First aid measures			
SECTION 4. First and measures			
4.1. Description of first aid measures	3		
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.		
5.2. Special hazards arising from the	e substance or mixture		
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		
6.1. Personal precautions, protective	e 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.	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			

Safety Data Sheet

SECTION 7: Handling and storage		
	1	
7.1. Precautions for safe handling	ing	
Precautions for safe handling	: Avoid breathing dust/fume/gas/mist/vapours/spray.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.	
7.2. Conditions for safe storage	e, 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		
SECTION 8: Exposure controls/personal protection		
3.1. 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 prop	erties
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
рН	: 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
www.spanlab.in	09/04/2015 4/9

Relative vapour density at 20 °C	: 3.63	
Relative density	: No data available	
Density Solubility	: 1.097 g/ml at 25 °C : Water: 105 g/l at 20 °C - completely soluble	
Log Pow	: -2.18	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: 0.016 - 0.106 vol %	
SECTION 10: Stability and reactivit	y	
SECTION 10: Stability and reactivit 10.1. Reactivity No additional information available	y	
SECTION 10: Stability and reactivit 10.1. Reactivity No additional information available 10.2. Chemical stability	y	
SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stable under normal conditions.		
SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous re		
No additional information available <b>10.2.</b> Chemical stability Stable under normal conditions. <b>10.3.</b> Possibility of hazardous re No additional information available <b>10.4.</b> Conditions to avoid		
SECTION 10: Stability and reactivity10.1.ReactivityNo additional information available10.2.Chemical stabilityStable under normal conditions.10.3.Possibility of hazardous reNo additional information available		
SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous re No additional information available 10.4. Conditions to avoid		
SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous re No additional information available 10.4. Conditions to avoid Direct sunlight. Air contact. Moisture. 10.5. Incompatible materials		
SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous re No additional information available 10.4. Conditions to avoid Direct sunlight. Air contact. Moisture.	eactions	

11.1. Information on toxicological effects		
Acute toxicity	: Oral: Harmful if swallowed.	
Skin corrosion/irritation	: Causes skin irritation. 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	

Safety Data Sheet

Safety Data Sheet		
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 asses	sment	
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	
UN-No. (IMDG)	: Not applicable	

## Safety Data Sheet

Caloty Bata Choot	
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
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
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
	. Net emplicable
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: 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

Safety Data Sheet

## **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. BlmSchV (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