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MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: DIETHANOLAMINE

CAS Number: 111-42-2

Product Code	:	00000 00000 00000
		90390, 96069, 96531, 98011
Company Name	:	ADVENT CHEMBIO PRIVATE LIMITED
Address	:	W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail	:	sales@adventchembio.com
WEBSITE	:	www.adventchembio.com
Company Phone Number	:	022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification		
Health hazards		
Acute toxicity, Oral	Category 4	
Skin irritation	Category 2	
Serious eye damage	Category 1	
Reproductive toxicity	Category 1	
Specific target organ toxicity - repeated exposure, Oral	Category 2 (Kidney, Liver, Blood)	
Labels elements		
Hazard symbol		
Signal word	Danger	
Hazard statement	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs (Kidney, Liver, Blood) through prolonged or repeated exposure if swallowed.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all sat precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/ bond container and receiving equipment.	fety



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		cal/ventilating/lighting/equipme	
_		s. Take precautionary measures a	gainst static discharge.
Response	-	et medical advice/ attention.	
		off immediately all contaminated	clotning. Rinse skin with water
	shower.	du with water for several minu	itas Domovo contact lancas
		sly with water for several minu	ites. Remove contact lenses,
	present and easy to do. Co	n to fresh air and keep comfortab	le for breathing
		ely call a POISON CENTER or docto	-
Storage		lated place. Keep container tight	
Storage		esealed and kept upright to preve	
Disposal		ainer to an appropriate treat	-
	-	e laws and regulations, and pro	
	disposal.		
Other hazards which do not		ontains no components consid	lered to be either persistent
result in GHS classification		(PBT), or very persistent and	
	levels of 0.1% or higher.		, , , ,
	-	e substance/mixture does not cor	ntain components considered to
		properties according to REAC	
		2017/2100 or Commission Regula	
	0.1% or higher.	-	
	Toxicological information:	The substance/mixture does not	contain components considered
	Toxicological information.	The substance/mixture does not	contain components considered
	-	ing properties according to REA	-
	to have endocrine disrupt		CH Article 57(f) or Commissio
	to have endocrine disrupt	ing properties according to REA	CH Article 57(f) or Commission
3. COMPOSITION/ INFORM	to have endocrine disrupt Delegated regulation (EU) 0.1% or higher.	ing properties according to REA	CH Article 57(f) or Commission
3. COMPOSITION/ INFORM	to have endocrine disrupt Delegated regulation (EU)	ing properties according to REA	CH Article 57(f) or Commission
Ingredient	to have endocrine disrupt Delegated regulation (EU) 0.1% or higher.	ing properties according to REA 2017/2100 or Commission Regula	CH Article 57(f) or Commission ation (EU) 2018/605 at levels c
Ingredient Diethanolamine	to have endocrine disrupt Delegated regulation (EU) 0.1% or higher. IATION ON INGRADIENTS: CAS Number	ing properties according to REA 2017/2100 or Commission Regula Percent	CH Article 57(f) or Commission ation (EU) 2018/605 at levels o Hazardous
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Ingredient Diethanolamine 4. FIRST AID MEASURES: General information Ingestion Inhalation	to have endocrine disrupt Delegated regulation (EU) 0.1% or higher. IATION ON INGRADIENTS: CAS Number 111-42-2 : Get medical advice/attention attendance. Call a physician or poiso : vomiting. If vomiting occur lungs. Move to fresh air. Call a ph : provide artificial respiration Get medical attention if syr Immediately flush with ph contact lenses. Get medica	ing properties according to REA 2017/2100 or Commission Regula Percent NLT 98.0% on if you feel unwell. Show this sa n control center immediately. rs, keep head low so that stomat hysician or poison control center n. If breathing is difficult, give oxygon ptoms persist. enty of water for at least 15 m l attention.	CH Article 57(f) or Commission ation (EU) 2018/605 at levels of Hazardous Yes afety data sheet to the doctor in Rinse mouth. Do NOT induce ch content doesn't get into the immediately. If breathing stops gen.
Ingredient Diethanolamine 4. FIRST AID MEASURES: General information Ingestion Inhalation	to have endocrine disrupt Delegated regulation (EU) 0.1% or higher. IATION ON INGRADIENTS: CAS Number 111-42-2 : Get medical advice/attention attendance. Call a physician or poiso : vomiting. If vomiting occur lungs. Move to fresh air. Call a ph : provide artificial respiration Get medical attention if syr Immediately flush with pl- contact lenses. Get medica Immediately flush with pl-	Percent NLT 98.0% Don if you feel unwell. Show this sate n control center immediately. rs, keep head low so that stomat hysician or poison control center h. If breathing is difficult, give oxygon nptoms persist. enty of water for at least 15 m l attention. lenty of water for at least 15 m	CH Article 57(f) or Commission ation (EU) 2018/605 at levels of Hazardous Yes afety data sheet to the doctor in Rinse mouth. Do NOT induc ch content doesn't get into the immediately. If breathing stops gen. hinutes. If easy to do, remove
Ingredient Diethanolamine 4. FIRST AID MEASURES: General information Ingestion Skin contact Eye contact	to have endocrine disrupt Delegated regulation (EU) 0.1% or higher. IATION ON INGRADIENTS: CAS Number 111-42-2 : Get medical advice/attention attendance. Call a physician or poiso : vomiting. If vomiting occur lungs. Move to fresh air. Call a ph : provide artificial respiration Get medical attention if syr Immediately flush with pl- contact lenses. Get medica Immediately flush with pl-	ing properties according to REA 2017/2100 or Commission Regula Percent NLT 98.0% on if you feel unwell. Show this sa n control center immediately. rs, keep head low so that stomat hysician or poison control center n. If breathing is difficult, give oxygon ptoms persist. enty of water for at least 15 m l attention.	CH Article 57(f) or Commissio ation (EU) 2018/605 at levels of Hazardous Yes afety data sheet to the doctor i Rinse mouth. Do NOT induc ch content doesn't get into th immediately. If breathing stops gen. hinutes. If easy to do, remov
Ingredient Diethanolamine 4. FIRST AID MEASURES: General information Ingestion Inhalation Skin contact	to have endocrine disrupt Delegated regulation (EU) 0.1% or higher. IATION ON INGRADIENTS: CAS Number 111-42-2 : Get medical advice/attention attendance. Call a physician or poiso : vomiting. If vomiting occur lungs. Move to fresh air. Call a ph : provide artificial respiration Get medical attention if syr Immediately flush with ph contact lenses. Get medica Immediately flush with ph ophthalmologist. If easy to	Percent NLT 98.0% Don if you feel unwell. Show this sate n control center immediately. rs, keep head low so that stomat hysician or poison control center h. If breathing is difficult, give oxygon nptoms persist. enty of water for at least 15 m l attention. lenty of water for at least 15 m	CH Article 57(f) or Commission ation (EU) 2018/605 at levels of Hazardous Yes afety data sheet to the doctor in Rinse mouth. Do NOT induct ch content doesn't get into the immediately. If breathing stops gen. hinutes. If easy to do, remove minutes. Immediately call in medical attention.



handling

container

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explosion-proof

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Indication of immediate medical attention and special treatment needed	:	No data available
5. FIRE FIGHTING MEASUR	RES:	
General information		
Suitable (and unsuitable) ex	tingu	uishing media
Suitable extinguishing media	:	Water, Foam, Carbon dioxide (CO2), Dry powder
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards arising from the chemical	:	Carbon oxides Nitrogen oxides (NOx) Combustible. Fire may cause evolution of: nitrous gases, nitrogen oxides. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.
Special protective equipmer	nt an	Development of hazardous combustion gases or vapours possible in the event of fire. d precautions for firefighters
Special firefighting procedures Special protective equipment for fire-fighters	:	Fight fire from a protected location. Move containers from fire area if you can do so without risk. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. ACCIDENTAL RELEASE M	IEAS	URES:
Personal precautions, protective equipment and emergency procedures	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning		Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.
ир	:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. HANDLING AND STORA	GE:	
Precautions for safe		Do not handle until all safety precautions have been read and understood. Do not handle,

: store or open near an open flame, sources of heat or sources of ignition. Protect material

receiving

and

from direct sunlight. Take precautionary measures against static discharges. Ground/bond

equipment.

Use



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	electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye, protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, long- term	inhalation	Systemic effects	1 mg/m3
Worker DNEL, long-term	dermal	Systemic effects	NA
Consumer DNEL, long-term	inhalation	Systemic effects	0,25 mg/m3
Consumer DNEL, long-term	dermal	Systemic effects	NA
Consumer DNEL, long-term	oral	Systemic effects	NA

Compartment	Value
Fresh water	0,0022 mg/l
Sea water	0,00022 mg/l
Aquatic intermittent release	0,022 mg/l
Fresh water sediment	0,019 mg/kg
Sea sediment	0,0019 mg/kg
Soil	0,00108 mg/kg
Sewage treatment plant	100 mg/l

Appropriate engineering

controls

: No data available

Individual protection measures, such as personal protective equipment

General information Eye/face protection	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment. Wear safety glasses with side shields (or goggles).
Hand protection	Chemical resistant gloves.
Other	. Wear suitable protective clothing.
Respiratory protection	In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.
Hygiene measures	Recommended Filter type: Filter A-(P2) Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and



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protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:		
Appearance	:	Clear, colourless hygroscopic viscous liquid.
Odor	:	Ammoniacal
Solubility	:	Completely miscible with water and ethanol. Slightly miscible with ether. Insoluble in benzene.
Formula	:	(HOCH ₂ CH ₂) ₂ NH
Molecular Weight	:	105.14 g/mol
Specific Gravity	:	1.080 - 1.100 g/cm3 at 25°C
рН	:	NLT 10
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	217°C
Melting Point	:	27°C
Flash Point	:	138 °C
Vapor Density (Air=1)	:	3.63
Vapor Pressure (mm Hg)	:	180 °C
Evaporation Rate (BuAc=1)	:	No data available

10. STABILITY AND REACTIVITY:

		Forms explosive mixtures with air on intense heating.	
Reactivity	:	A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.	
Chemical stability	:	Material is stable under ambient conditions	
Possibility of hazardous reactions	:	Exothermic reaction with: anhydrides, Oxidizing agents, acids, Isocyanates, Halogenated compounds, Peroxides, phenols, acid halides, and strong reducing agents Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines	
Conditions to avoid	:	Strong heating.	
Incompatible materials	:	Bronze, Copper, Copper alloys, brass, Zinc, zinc alloys, Strong oxidizing agents	
Hazardous decomposition products	:	In the event of fire: see section 5	



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11. TOXICOLOGICAL INFORMATION:			
Information on toxicological effects			
Acute toxicity (list all possible routes of exposure)			
Oral Product	D 50 (Rat): 1.600 mg/kg		
Dermal Product	lo data available.		
Inhalation Product	Io data available.		
Repeated dose toxicity Product	lo data available.		
Skin corrosion/irritation Product	rritation		
Serious eye damage/eye irritation Product	Causes serious eye damage.		
Respiratory or skin sensitization Product	Naximization Test - Guinea pig, Result: negative		
Carcinogenicity Product	lo data available.		
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	lo data available.		
US. National Toxicology Program (NTP) Report on Carcinogens	lo data available.		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity	lo data available.		
In vitro Product	lo data available.		
Reproductive toxicity Product	uspected of damaging the unborn child. Suspected of damaging fertility.		
Specific target organ toxicity - single exposure Product	lo data available.		
Specific target organ toxicity - repeated exposure Product	ngestion - May cause damage to organs through prolonged or repeated ex iver, Blood	posure Kidney,	
Aspiration hazard Product	lo data available.		
Other effects	lone known.		



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12. ECOLOGICAL INFORMAT	12. ECOLOGICAL INFORMATION:		
Ecotoxicity Acute hazards to the aquatic environment			
Fish Product	:	LC 50 Oncorhynchus mykiss (rainbow trout), - 460 mg/l - 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC 50 - Ceriodaphnia dubia (water flea) - 30,1 mg/l - 48 h	
Toxicity to algae	:	ErC 50 - Pseudokirchneriella subcapitata (green algae) - 9,5 mg/l - 96 h	
Toxicity to bacteria	:	EC 10 - activated sludge - > 1.000 mg/l - 30 min	
Chronic hazards to the aquat	ic e	nvironment	
Toxicity to daphnia and other aquatic invertebrates	:	semi-static test EC10 - Daphnia magna (Water flea) - 1,05 mg/l - 21 d	
Toxicity to Aquatic Plants Product:	:	No data available.	
Persistence and degradabilit	у		
Biodegradation Product	:	Readily biodegradable.	
BOD/COD ratio Product	:	Biochemical Oxygen Demand (BOD) - 885 mg/g Chemical Oxygen Demand (COD) - 1.352 mg/g	
Bioaccumulative potential			
Bioconcentration factor (BCF) Product	:	No data available on bioaccumulation.	
Partition coefficient n- octanol / water (log Kow) Product	:	No data available.	
Mobility in soil	:	No data available.	
Other adverse effects	:	Additional ecological information Biological effects: Harmful effect due to pH shift. When discharged properly, no impairments in the function of adapted biological wastewater treatment plants are to be expected. Discharge into the environment must be avoided.	
13. DISPOSAL CONSIDERATION	ON:		
Disposal instructions	:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.	

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container is emptied.



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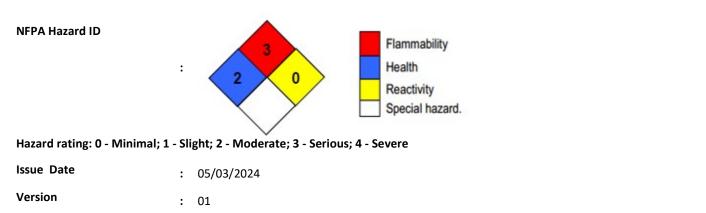
CAS Number: 111-42-2

14. TRANSPORT INFORMATION:					
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR/RID	NA	Diethanolamine		Not dangerous good	s
IMDG	NA	Diethanolamine	I	Not dangerous good	s
ΙΑΤΑ	NA	Diethanolamine	I	Not dangerous good	S

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:



Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).