SAFETY DATA SHEET



DIMETHYLAMINOETHANOL

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

1.1 Product identifier:	
CAS Number:	108-01-0
EC number:	203-603-9
1.2 SYNONYMS:	 2-Dimethylethanolamine N,N-Dimethylethanolamine DMAE Dimethylaminoethanol 2-(Dimethylamino)ethanol N,N-Dimethyl-2- aminoethanol
	• Ethanol, 2-(dimethylamino)

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Flammable liquid (Category 3) Acute toxicity,inhalation (Category 3)
	Serious eye damage/ eye irritation(category 1)
YOUR CHEMI	Skin corrosion/ irritation (Category 1) Skin sensitization(category 1) Specific target organ toxicity, repeated exposure(category 2) Short term (acute) hazardous to the environment (category 3)
Hazard Pictograms:	
Signal Word:	Danger



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Hazard statements:	H226: Flammable liquid and vapor.
	H314: Causes severe skin burns and
	eye damage. H317: May cause an allergic skin
	reaction.
	H318: Causes serious eye damage.
	H331: Toxic if inhaled.
LOIL	H373: May cause damage to organs
	(respiratory system) through
	prolonged or repeated exposure.
	H402: Harmful to aquatic life.
Precautionary Statements:	P102: Keep out of reach of children.
	P233: Keep container tightly closed.
	P240: Ground/bond container and
	receiving equipment.
	P241: Use explosion-proof
	electrical/ventilating/lighting
	equipment.
	P242: Use non-sparking tools.
	P243: Take precautionary measures
	against static discharge.
	P260: Do not breathe
	dust/fume/gas/mist/vapors/spray.
	P261: Avoid breathing vapors.
	P264: Wash hands thoroughly after
	handling. P280: Wear protective
	gloves/protective clothing/eye
	protection/face protection.
	P301 + P312: IF SWALLOWED: Call a
	POISON CENTER or doctor if you
	feel unwell.
VOUD OUT MAI	P302 + P352: IF ON SKIN: Wash with
YOUR CHEMI	plenty of soap and water.
	P305 + P351 + P338: IF IN EYES:
	Rinse cautiously with water for
	several minutes. Remove contact
	lenses, if present and easy to do.
	Continue rinsing.



	P304 + P340: IF INHALED: Remove
	person to fresh air and keep
	comfortable for breathing.
	P370 + P378: In case of fire: Use dry
	chemical, foam, or carbon dioxide
	for extinction.
-511	P210: Keep away from
	heat/sparks/open flames/hot
	surfaces. No smoking.
	P403 + P235: Store in a well-
	ventilated place. Keep cool.
	P501: Dispose of contents/container
	in accordance with local/regional/
2.3 Other hazards:	national/international regulations.
Inhalation:	
innalation:	may cause irritation to the
	respiratory system, leading to
	symptoms such as coughing,
	shortness of breath, and discomfort
	in the throat or chest.
Ingestion:	can cause gastrointestinal irritation,
	nausea, vomiting, abdominal pain,
Skin Contact:	may cause irritation, redness and
	itching and burning sensation.
Eye contact:	can cause severe irritation, redness,
	pain, and potential eye damage.
Chronic Exposure:	may lead to prolonged irritation of
	the skin, eyes, or respiratory system,
	and could potentially cause more
	severe health effects such as liver or
	kidney damage
Aggravation of pre-existing	may aggravate pre-existing
conditions:	conditions like respiratory disorders,
	or skin conditions like dermatitis.



SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 108-01-0
	DIMETHYLAMINOETHANOL
Identification number(s):	EC number: 203-603-9

SECTION 4: First aid measures

4.1 Description of first aid measures	
ilicusules	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms	Burning pain and severe corrosive
and effects, both acute and	skin damage. Causes serious eye
YOUR CHEMI	damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.



SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam.
5.2 Special hazards arising from	Formation of explosive dust/air
the substance or mixture:	mixtures is possible. In case of fire,
	carbon monoxide can be formed.
5.3 Advice for firefighters:	Wear fully protective suit, safety
- LOID	glasses and respiratory device. Cool
	tanks/drums with water
	spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions,	Use personal protective
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
	Evacuate personnel to safe areas.
	Beware of vapours accumulating
	to form explosive concentrations.
	Avoid dust accumulation. Seek
	medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
	drains.
6.3 Methods and material for	Take up spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
	return in its original container.
AUIID CHEWI	Clean contaminated surfaces with
IUUN UNLIVII	an excess of water. Wash clothing
	and equipment after handling.



SECTION 7: Handling and storage

71 Dressutions for sefe bandlings	For use in are with adequate
7.1 Precautions for safe handling:	For use in are with adequate
	ventilation.
	Empty containers pose a fire risk,
	evaporate the residue under a
	fume hood. Ground all equipment
FCIII	containing material
	Do not use in confined spaces.
	Electrostatic discharge protection.
	Minimize dust generation and
	accumulation.
	Avoid ingestion and inhalation.
7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed
	Store in a cool, dry, well-ventilated
	area.
	Store away from incompatible
	materials and foodstuff containers.
	Protect containers against physical
	damage and check regularly for
	leaks. Store in a dry and dark area.
Requirements to be met by	Keep container tightly closed in a
	dry and well-ventilated place.
storerooms and receptacles:	-
	Containers which are opened must
	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	JAL FANINLN
Appropriate engineering controls	Handle in accordance with good
	industrial hygiene and safety
	practice. Wash hands before
	breaks and at the end of workday.



Personal protective equipment: General protective and hygienic measures:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc. Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment. Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Colourless
Odour:	Ammoniacal
pH-value:	No data available
Melting point/Melting range:	-64°C
Boiling point/Boiling range:	134.6°C
Flammability (solid, gaseous):	Highly flammable
Ignition temperature:	220°C
Decomposition temperature:	No data available
Self-igniting:	No
Flash point:	40.5°C
Danger of explosion:	Yes



Explosion limits: Lower:	1.4%
Explosion limits: Upper:	11%
Vapour pressure:	612 Pa at 20°C
Density at 20 °C:	0.86
Relative density:	0.86
Vapour density:	3.3
Evaporation rate:	No data available
Solubility in / Miscibility with-	Readily miscible
·water at 20 °C:	
Partition coefficient:(n-	-0.69
octanol/water)	
Viscosity:	2.4mPa.s at 25°C

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous reactions	Reacts violently with acids, acid chlorides, oxidants and isocyanates, creating a risk of fire and explosion. When burned, it decomposes to produce toxic gases containing nitrogen oxides. Attacks copper and copper alloys.
10.4 Conditions to avoid	Keep away from heat, spark and flame.
10.5 Incompatible materials	Acids, acid chlorides, oxidants,
	isocyanic acid
10.6 Hazardous decomposition products	Carbon dioxides, carbon monoxide nitrogen oxides
SECTION 11: Toxicological information	

11.1 Information on toxicological	
effects	
Acute Toxicity:	LD50 (Oral, Rat) : no data available
	LD50 (Dermal, Rabbit) : no data
	available



	LC50 (Inhalation Rat) : no data
	available
Skin corrosion/Irritation:	Causes skin burns
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity -	No data available
single exposure:	
Specific target organ toxicity -	May cause damage to respiratory
repeated exposure:	system.
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	moderately biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish): no data available (96hr) EC50(daphnia): no data available(48hr)
	EC50(algae): no data available(72hr)
12.2 Persistence and degradability:	readily biodegradable
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Water, Isopropyl alcohol, ethanol,
	acetone, Sodium Bicarbonate.



SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	2051
IMDG, IATA:	
14.2 UN proper shipping name ·	2-Dimethylaminoethanol
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	8
ADR, ADN, IMDG, IATA :	1076
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	Harmful for aquatic life.
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental	Directive 2012/18/EU, under that this substance is not classified in
regulations/legislation specific	listed substance.
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been
	carried out under REACH
	regulation

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.