SAFETY DATA SHEET



MONOETHANOLAMINE

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

1.1 Product identifier:	
CAS Number:	141-43-5
EC number:	205-483-3
1.2 SYNONYMS:	MEAEthanolamine
	 2-Aminoethanol Hydroxyethylamine Ethanolamine, 2-amino- Monoethanolamine, 2-aminoethanol

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 Acute toxicity, Oral (Category 4) Acute toxicity, dermal (Category 4) Acute toxicity, inhalation. (Category 4)
	Skin corrosion, (Category 1B) Serious eye damage, (Category 1) Specific target organ toxicity, single exposure, (Category 3)
YOUR CHEMI	Long-term (chronic) aquatic hazard, (Category 3)
Hazard Pictograms:	
Signal Word:	Danger



Hazard statements:	H302 + H312 + H332: Harmful if
liazard statements.	swallowed, in contact with
	skin or if inhaled.
	H314: Causes severe skin burns and
	eye damage.
	H335: May cause respiratory
E CTI	irritation.
	H412: Harmful to aquatic life with
	long lasting effects.
Precautionary Statements:	P261: Avoid breathing mist or
Precautionary Statements.	vapours.
	P273: Avoid release to the
	environment.
	P280: Wear protective gloves/
	protective clothing/ eye
	protection/ face protection/ hearing
	protection.
	P301 + P330 + P331: F
	SWALLOWED: Rinse mouth. Do
	NOT induce vomiting.
	P303 + P361 + P353: IF ON SKIN (or
	hair): Take off immediately all
	contaminated clothing. Rinse skin
	with water.
	P305 + P351 + P338 + P310: IF IN
	EYES: Rinse cautiously with water
	for several minutes. Remove contact
	lenses, if present and easy to do.
	Continue rinsing. Immediately call a
	POISON CENTER/ doctor.
2.3 Other hazards:	
Inhalation:	can cause irritation of the
YOUR CHEM	respiratory system, leading to
IUUN UNLIVI	symptoms such as coughing,
	shortness of breath, and potentially
	severe respiratory distress.
Ingestion:	can cause nausea, vomiting,
	abdominal pain, and in severe cases,
	damage to the gastrointestinal tract
	and central nervous system.



Skin Contact:	can cause irritation, redness, and in
	severe cases, chemical burns or
	dermatitis.
Eye contact:	can cause severe irritation, redness,
	pain, and potential damage to the
FOTI	cornea, leading to impaired vision if
-511	not treated promptly.
Chronic Exposure:	may lead to skin sensitization,
	respiratory issues, liver or kidney
	damage, and potential neurological
	effects due to prolonged irritation or
	toxicity.
Aggravation of pre-existing	may aggravate pre-existing
conditions:	conditions such as such as asthma,
	respiratory disorders, or skin
	conditions like eczema.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 141-43-5
	MONOETHANOLAMINE
Identification number(s):	EC number: 205-483-3

SECTION 4: First aid measures

4.1 Description of first aid measures	
inidusui de	
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 and effects, both acute and delayed:	The most important symptoms and effects include acute irritation of the eyes, skin, and respiratory system, with delayed effects potentially including chronic skin conditions, respiratory issues, or liver and kidney damage with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

y release ammonia when
ated
ear fully protective suit, safety asses and respiratory device. Cool aks/drums with water ay/remove them into safety.
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
FOTE	medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
FOID	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.
	Clean contaminated surfaces with
	an excess of water. Wash clothing
	and equipment after handling.

SECTION 7: Handling and storage

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 containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion
7.2 Conditions for safe storage, including any incompatibilities:	inhalation. Store in original containers. 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
storerooms and receptacles:	dry and well-ventilated place.
	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	
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:	Dust respirator, protective masks,
	wearing anti chemical gloves,
	rubber gloves, etc.
General protective and hygienic	Eyes, body and hand protection,
measures:	maintain indoor air unobstructed.
	Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be
Protection of names.	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
VOUR CHEMI	gloves after use in accordance with
TUUN GREWI	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:	Ammonia like.
pH-value:	12.1
Melting point/Melting range:	-12°C
Boiling point/Boiling range:	170°C
Flammability (solid, gaseous):	Flammable liquid
Ignition temperature:	390°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	85°C
Danger of explosion:	None
Explosion limits: Lower:	1.5%
Explosion limits: Upper:	7.5%
Vapour pressure:	0.5 mm Hg (20 °C)
Density at 20 °C:	1.01 g/cm ³
Relative density:	1.01
Vapour density:	2.3
Evaporation rate:	Not determined
Solubility in / Miscibility with-	Readily soluble
·water at 20 °C:	
Partition coefficient:(n-	-1.31
octanol/water)	
Viscosity:	17.6 mPa·s (20 °C)

SECTION 10: Stability and reactivity

10.1 Reactivity	No reaction under normal
VIIIIK I:HEMI	conditions.
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	Can react with strong acids to
reactions	release nitrogen oxide.
10.4 Conditions to avoid	Excessive heat, moisture.



10.5 Incompatible materials	Strong oxidizing agents, strong acids.
10.6 Hazardous decomposition products	Ammonia, nitrogen oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 1089 mg/kg
Acute Foxiolog.	LD50 (Dermal, Rabbit): 2000 mg/kg
	LC50 (Inhalation Rat): 20 mg/l (4hr)
Skin corrosion/Irritation:	Causes burns
Serious eye damage/irritation:	No data available
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 -	May cause respiratory irritation
single exposure:	
Specific target organ toxicity -	No data available
repeated exposure:	
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	Readily Biodegradable

SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 349 mg/l (96 hr)
Aquatic toxicity:	EC50(daphnia): 27.04 mg/l (48 hr)
	ErC50(algae): 2.8 mg/l (72 hr)
12.2 Persistence and	Readily Biodegradable
degradability:	
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, Mild Detergents, Diluted
	Acid Solutions, Absorbents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	2491
IMDG, IATA:	
14.2 UN proper shipping name ·	ETHANOLAMINE
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	8
ADR, ADN, IMDG, IATA:	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	None
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
YUUK LHFINI	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.

YOUR CHEMICAL PARTNER