

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name: 2-Ethylamine

Cat No.: AC271660000; AC271660010; AC271660025; AC271660050;

AC271661000; AC271662500

CAS No.: 104-75-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Laboratory chemicals

Uses advised against: Food, drug, pesticide or biocidal product use.

1.3 Details of the supplier of the safety data sheet

Company: Krishna Solvechem Limited.

B/503, Sahayog, S. V. Road,

Kandivali (West), Mumbai – 400067. India.

1.4 Emergency telephone number

Emergency Phone: +91-8657457330

SECTION 2: Hazards identification

2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	(Category 3)
Acute oral toxicity	(Category 4)
Acute inhalation toxicity – vapors	(Category 2)
Skin Corrosion/Irritation	(Category 1 A)
Serious Eye Damage/Eye Irritation	(Category 1)
Specific target organ toxicity (single exposure)	(Category 3)
Target Organs - Respiratory system.	

2.2 Label elements

Pictogram:

Signal word Danger

Hazard statement (s) Flammable liquid and vapor

Causes severe skin burns and eye damage



Harmful if swallowed Fatal if inhaled May cause respiratory irritation

Precautionary statement (s)

Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools

Take precautionary measures against static discharge Keep cool

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

IF ON SKIN (or hair):

If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention **Ingestion:**

Rinse mouth. Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Store locked up Store in a well-ventilated place. Keep container tightly closed



Disposal:

Dispose of contents/container to an approved waste disposal

plant

Hazards not otherwise classified (HNOC)

None identified

SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
2-Ethylhexylamine	104-75-6	<100
Di(2-ethylhexyl)amine	106-20-7	0.01 – 0.2

SECTION 4: First aid measures

4.1	Description	of first aid	measures
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	Description of mist did measures						
	General Advice:	If symptoms persist, call a physician.					
	If inhalation :	If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to freshair. Immediate medical attention is required.					
	In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
	In case of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
	Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately					
4.2	Most important symptoms and effects :	Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus shouldbe investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation					
4.3	Notes to Physician :	Treat symptomatically					

SECTION 5: Firefighting effects

5.1 Extinguishing media

Suitable extinguishing media: Water spray, carbon dioxide (CO2), dry chemical, alcoholresistant foam. Water mist may be used to cool closed containers.

5.2 Flash Point: 50 °C / 122 °F No information available



295 °C / 563 °F **Autoignition Temperature:**

Explosion Limits:

Upper 6.00% 0.80% Lower

No information available **Sensitivity to Mechanical**

Impact

No information available **Sensitivity to Static**

Discharge

Specific Hazards Arising from Thermal decomposition can lead to release of irritating gases

and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel

to source of ignition and flash back.

Hazardous Combustion

Products:

the Chemical:

Carbon monoxide (CO). Carbon dioxide (CO2).

5.4 **Protective Equipment and**

As in any fire, wear self-contained breathing apparatus **Precautions for Firefighters:** pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

Health **Physical** Flammability Instability hazards NFPA: 2 4 0 N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwindof spill/leak. Take precautionary measures against static discharges.

6.2 **Environmental precautions**

Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures



against static discharges.

7.2 Conditions for safe storage

Keep away from heat, sparks and flame. Flammables area. Keep containers tightly closedin a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Acids. Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

Personal protective equipment -

Eye / Face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice..

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties Colorless Liquid a) Appearance b) Odour Ammonia-like No information available c) Odour Threshold d) pH No information available e) Melting point / freezing < -70 °C / < -94 °F point f) Initial boiling point and 170 °C / 338 °F @ 760 mmHg



50 °C / 122 °F
No information available
Not applicable
6.00%
0.80%
1.6 hPa @ 20 °C
4.45
0.780
Soluble in water
No data available
295 °C / 563 °F
No information available
1.1 mPa s at 20 °C
C8 H19 N
129.25

SECTION 10: Stability and Reactivity									
10.1	0.1 Reactive Hazard : None known, based on information available								
10.2	.2 Chemical stability: Stable under normal conditions.								
10.3	.3 Possibility of hazardous None under normal processing. reactions:								
10.4	4 Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.								
10.5	Incompatible materials:	Strong oxidizing agents, Acids							
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2)							
10.7	Hazardous Polymerization	Hazardous polymerization does not occur							



SECTION 11: Toxicological information

11.1

Information on toxicological effects

Acute toxicity:

Product Information:

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Ethylhexylamine	LD50 = 450 mg/kg (Rat	Not listed	LC50 < 1.548 mg/L (Rat) 4 h
Di(2-ethylhexyl)amine LD50 = 1640 mg/kg (Rat)		Not listed	LC50 = 0.91 mg/L (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: Causes burns by all exposure routes

Sensitization: No information available

Carcinogenicity: The table below indicates whether each agency ha

Any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
2-Ethylhexylamine	104-75-6	Not listed				
Di(2- ethylhexyl)amine	106-20-7	Not listed				

Di(2- ethylhexyl)amine	106-20-7	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic I	Effects:		No inform	ation available					
Reproductiv	e Effects:		No inform	ation available					
Developme	ntal Effect	s :	No inform	ation available	•				
Teratogenic	ity:		No inform	ation available					
STOT - single	e exposure	e:	Respirato	ry system					
STOT - repe	ated expo	sure:	None kno	wn					
Aspiration h	nazard :		No inform	No information available.					
Symptoms delayed:	/ effects,b	oth acute and	dizziness, corrosive contraind esophagu severe sw	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting:Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation					
	-	nformation :		No information available					
Other Adve	rse Effects	:		The toxicological properties have not been fully investigated.					



	SECTION 12: Ecological information								
12.1 Ecoto	12.1 Ecotoxicity:								
12.2	12.2 Persistence and degradability: Persistence is unlikely								
	Bioaccumulation/ Accumulation	No information available							
12.3	Mobility:	Will likely be mobile in the environment due to its water solubility. Log pow: 2.82							

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

14.1 UN number:

DOT : UN2276 TDG : UN2276 IATA : UN2276 IMDG : UN2276

14.2 UN proper shipping name

DOT: 2-ETHYLHEXYLAMINE TDG: 2-ETHYLHEXYLAMINE IMDG: 2-ETHYLHEXYLAMINE IATA: 2-ETHYLHEXYLAMINE 14.3 Transport hazard class(es) DOT: 3 TDG: 3 IMDG: 3 IATA: 3 14.4 Packaging group: DOT: III TDG:III IMDG: III IATA: III

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA RegulatoryFlags
2-Ethylhexyl amine	104-75-6	X	ACTIVE	-
Di(2-ethylhexyl) amine	106-20-7	X	ACTIVE	-

Legend:



TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories:

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
2- Ethylhexy lamine	104- 75-6	Х	-	203-233-8	Х	Х	Х	Х	Х	KE-13782
Di(2- ethylhexy I)amine	106- 20-7	Х	-	203-372-4	Х	Х	Х	Х	Х	KE-05-0210

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65

chemicals.

15.2 U.S. State Right-to-Know Regulations:

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2- Ethylhexylami ne	X	Х	Х	-	-
Di(2- ethylhexyl)am ine	X	-	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):



DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland - This product does not contain the any DHS Chemicals.

Security

Other International Regulations

Mexico – Grade No information available

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
2-Ethylhexyl amine	104-75-6	Not applicable	Not applicable	Not applicable	Not applicable
Di(2- ethylhexyl) amine	106-20-7	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantitiesfor Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
2-Ethylhexyl amine	104-75-6	Not applicable	Not applicable	Not applicable	Not applicable
Di(2- ethylhexyl) amine	106-20-7	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 16: Other information

16.1 Prepared By: Regulatory affairs

Krishna Solvechem

Limited

Email: exports@kscl.co.in

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Revision Summary: This document has been updated to comply with the US OSHA

HazCom 2012 Standard replacing the current legislation under 29 C F R 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).



16.2 Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.