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H302: Harmful if swallowed.

damage.

Danger

protection.

unwell.

Harmful if swallowed.

clothing. Rinse skin with water.

H314: Causes severe skin burns and eye

Causes severe skin burns and eye damage.

Wear protective gloves/ protective clothing/ eye protection/ face

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

IF ON SKIN (or hair): Take off immediately all contaminated

for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

IF INHALED: Remove person to fresh air and keep comfortable

H318: Causes serious eye damage.

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: 2-(Ethylamino)ethanol, 97% Product Code: E 1388 CAS No : 110-73-6

1.2. RelevaMnt identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email <u>info@ottokemi.com</u>

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Acute toxicity, (Category 4) Skin corrosion, (Sub-category 1B) Serious eye damage, (Category 1) 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H302 H314 Precautionary Statements P280 P301 + P312 P303 + P361 + P353 P304 + P340 + P310 P305 + P351 + P338

rinsing. P363 Wash contaminated clothing before reuse. Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Danger Hazard Statements H314 Causes severe skin burns and eye damage. **Precautionary Statements** Wear protective gloves/ protective clothing/ eye protection/ face P280 protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable

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P305 + P351 + P338

P363 Supplemental Hazard Statements 2.3 Other hazards This substance/mixture for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse. none

2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Rapidly absorbed through skin.

SECTION 3: Composition/information on ingredients

3.1 Substances	
Synonyms	: N-Ethylethanolamine
Formula	: C4H11NO
Molecular weight	: 89,14 g/mol
CAS-No.	: 110-73-6
EC-No.	: 203-797-5

Component	Classification	Concentration
2-Ethylaminoethanol		A Start
CAS-No. 110-73-6	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1;	<= 100 %
EC-No. 203-797-5	H302, H314, H318	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance. If inhaled After inhalation: fresh air. Call in physician. In case of skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately. In case of eye contact After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses. If swallowed After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise. 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 4.3 Indication of any immediate medical attention and special treatment needed No data available

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SECTION 5: Firefighting measures

5.1 Extinguishing 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. 5.2 Special hazards arising from the substance or mixture Carbon oxides Nitrogen oxides (NOx) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. **SECTION 6: Accidental release measures** 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Storage class Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment

Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety

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goggles Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet www.kcl.de) Full contact Material: butyl-rubber Minimum laver thickness: 0.7 mm Break through time: 480 min Material tested:Butoject® (KCL 898) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 30 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M) Body Protection protective clothing Respiratory protection required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state clear, viscous liquid b) Color colorless No data available c) Odor Melting point/range: -90 °C - lit. d) Melting point/freezing point e) Initial boiling point 169 - 170 °C - lit. and boiling range f) Flammability (solid, No data available qas) g) Upper/lower Upper explosion limit: 11,7 %(V) flammability or Lower explosion limit: 1,6 %(V) explosive limits h) Flash point 78 °C i) Autoignition No data available temperature j) Decomposition No data available temperature k) pH No data available I) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available m) Water solubility miscible in all proportions

n-octanol/water

n) Partition coefficient:

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No data available

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o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle	0,46 hPa at 20 °C - OECD Test Guideline 104 0,914 g/cm3 at 25 °C - lit. No data available No data available No data available			
characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information	No data available none			
Relative vapor density	3,08 - (Air = 1.0)			
SECTION 10: Stability and reactivity 10.1 Reactivity Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to b 10.2 Chemical stability The product is chemically stable under standard ambient co 10.3 Possibility of hazardous reactions Exothermic reaction with: acids	onditions (room temperature) .			
Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines! 10.4 Conditions to avoid Strong heating. 10.5 Incompatible materials No data available 10.6 Hazardous decomposition products In the event of fire: see section 5				
SECTION 11: Toxicological information 11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Othronic Effects on Humans: Not available.				
SECTION 12: Ecological information 12.1 Toxicity Toxicity to fish static test LC50 - Leuciscus idus (Golden off h (DIN 38412) Toxicity to algae static test ErC50 - Pseudokirchneriella sub (OECD Test Guideline 201) Toxicity to bacteria Toxicity to fish(Chronic toxicity) flow-through test NOEC - Pimephales promelas (fathead mi 7,98 mg/l - 28 d (OECD Test Guideline 210) Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) semi-static test NOEC - Daphnia magna (Water flea) - 3,2 m d	innow) -			
Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: (Other Toxic Effects on Humans: Hazardous in case of skin Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa (DIN 38412) Toxicity to fish static test LC50 - Leuciscus idus (Golden off h (DIN 38412) Toxicity to algae static test ErC50 - Pseudokirchneriella sub (OECD Test Guideline 201) Toxicity to bacteria Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	Classified None. by NTP, None. by OSHA, None. by NIOSH. contact (irritant), of inhalation (lung irritant). ble. railable. re) - 100 - 215 mg/l - 96 ocapitata - 37,3 mg/l - 72 h			

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Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Regulation (EU) 2017/2100 or Commission Regulation (EU) Proper shipping name ADR/RID: 8 14.4 Packaging group ADR/RID: 8 14.4 Packaging group ADR/RID: 10 14.3 Servironmental hazards ADR/RID: 10 14.4 Secial precautions for user Tunnel restriction code :: (E) Further information :: No data available SECTION 15: Regulatory information 14.3 Special precautions for user Tunnel restriction code :: (E) Tunnel restriction code :: (E) This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out	Result: 63 % - Rea (OECD Test Guide 12.3 Bioaccumulai No data available 12.4 Mobility in so No data available 12.5 Results of PE This substance/mi	and degrádability erobic - Exposure time 28 d adily biodegradable. sline 301B) tive potential a T and vPvB assessment xture contains no component nd toxic (PBT), or very persis igher.	ts considered to be either persistent, itent and very bioaccumulative (vPvB) at	
12.7 Other adverse effects Neutralise before sewage disposal. Discharge into the environment must be avoided. SECTION 13: Disposal considerations 13.1 Waste treatment methods No data available SECTION 14: Transport information 14.1 UN number ADR/RID: 2735 14.2 UN proper shipping name ADR/RID: 8 14.4 Packaging group ADR/RID: 10 14.3 Transport hazard class(es) ADR/RID: 10 14.5 Environmental hazards ADR/RID: 10 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment	Assessment	considered to have endocri according to REACH Article Delegated regulation (EU)	ine disrupting properties e 57(f) or Commission 2017/2100 or Commission	
13.1 Waste treatment methods No data available SECTION 14: Transport information 14.1 UN number ADR/RID 2735 IMDG: 2735 14.2 UN proper shipping name ADR/RID : AMINES, LIQUID, CORROSIVE, N.O.S. (2-Ethylaminoethanol) (2- Ethylaminoethanol) IMDG : AMINES, LIQUID, CORROSIVE, N.O.S. (2-Ethylaminoethanol) (2- Ethylaminoethanol) IATA : MbG: 8 IATA: 8 14.4 Packaging group IMDG: 11 IATA: 10 14.5 Environmental hazards IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user <t< td=""><td>Neutralise before</td><td>e effects sewage disposal.</td><td></td><td></td></t<>	Neutralise before	e effects sewage disposal.		
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14.5 Environmental hazards IMDG Marine pollutant: no IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user : (E) Impose the pollutant: no IATA: no Tunnel restriction code : (E) : No data available Impose the pollutant: no IATA: no SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. No Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment		oup	INDG. 8	IATA. O
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Tunnel restriction code : (E) Further information : No data available SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. 0ther regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment 1000000000000000000000000000000000000	ADR/RID: no		IMDG Marine pollutant: no	IATA: no
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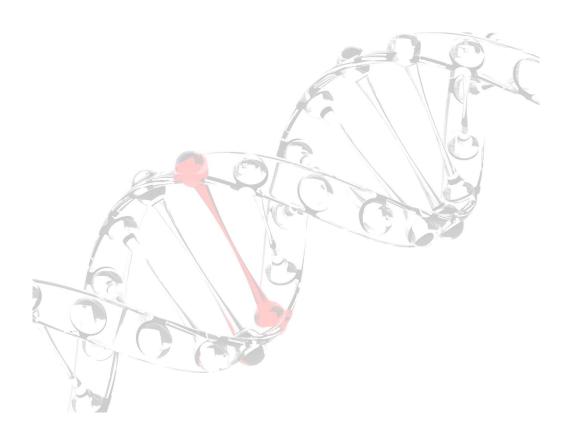
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Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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