

Safety Data Sheet

COMMISSION REGULATION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

Revision No-6

Printing Date 25/08/2020

Product Name – 3-Ethoxypropylamine

Revision Date- 24/08/2020

1. Identification Of the Substance

1.1 Product Identifier

- **Product Name:** 3-Ethoxypropylamine
- **Synonym/IUPAC name:** 3-Ethoxypropane 1-amine
- **CAS No:** 6291-85-6
- **EC No:** 228-545-1

1.2 Relevant Identified Uses of the substance or mixture and uses advised against: as an intermediate in synthesis

1.3 Details of the Supplier of the Safety Data Sheet

– **Manufacturer/supplier:**

Alkyl Amines Chemicals Ltd
401-407, Nirman Vyapar Kendra, Plot No-10
Sect-17, Vashi, Navi Mumbai
India – 400703

Emergency Contact no- +91 2117 235175 / 235222 **Mobile no:** +919881973507 / +919423002721
Emergency Contact No for US only- +1 703 527 3887 / 800 424 9300

e-mail Address of the competent Person responsible for Safety Data Sheet:

rsattigeri@alkylamines.com

Information Dept: R&D

1.4 Emergency Telephone Numbers : As mentioned above

2. Hazard Identification

2.1 Classification of Substance or Mixture

– **Classification According to EC regulation 1272/2008**



GHS02 Flammability Cat 3 H226- Flammable liquid and vapour



GHS05 Skin Corrosion Cat- 1B H314- Causes severe skin burns and eye damage



GHS 07 Acute Toxicity Oral, Cat-4 H302- Harmful if swallowed

- Labelling according to EC Regulation No 1272/2008

The substance is classified and labelled according to CLP Regulation

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Hazard Pictograms**Signal word** – Danger**Hazard Statements-****H226** Flammable liquid and vapour**H314** Causes severe skin burns and eye damage.**H302** Harmful if swallowed.**Precautionary statements****Prevention:****P210:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P280** Wear protective gloves/protective clothing/eye protection/face protection.**Response:****P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**P310** Immediately Call a POISON CENTER or doctor/physician.**Storage:****P405** : Store locked up**Disposal:****P501-** Dispose of the content/container in accordance with the local/regional/national/international regulation**Additional Precautionary statement –****P303+P361+P353 IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower**2.3 Other hazards****Results of PBT and vPvB assessment**

The 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.

3. Composition/Information on Ingredients

Description	CAS No	EC No	Content (% w/w)
3-Ethoxypropylamine	6291-85-6	228-545-1	>99.0

Molecular Formula – C₅H₁₃NO**Molecular Wt-** 103.16 g/mole**4. First- Aid Measures****--4.1 Description of first aid measures****- General information:**

Immediately remove any clothing contaminated by the product. If the patient is likely to become unconscious, place and transport in stable sideways position (recover position).

-After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor.

--After skin contact:

Take off contaminated cloths immediately. Wash the portion with soap and plenty of water.. If skin irritation continues, consult a doctor.

- After eye contact:

Rinse opened eye for several minutes under running water. Use eye protection. Call Doctor immediately .

- After swallowing:

.. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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- 4.2 Most important symptoms and effects, both acute and delayed

Material is destructive to the tissue of mucus membrane , upper respiratory tract ,eyes and skin.

- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Fire Fighting Measures**-5.1 Extinguishing media****Suitable extinguishing agents**Carbon dioxide (CO₂), extinguishing powder or water spray/fog , foam.· **For safety reasons unsuitable extinguishing agents.** : Not Applicable.**- 5.2 Special hazards arising from the substance or mixture**Nitrogen oxides (NO_x)Carbon monoxide (CO) and Carbon dioxide (CO₂)**- 5.3 Advice for fire-fighters****- Protective equipment:** Wear self-contained breathing apparatus.**- Additional information**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations

Use water spray to cool unopened containers.

6. Accidental release Measures**- 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Use breathing protection against the effects of fumes/dust/aerosol.

Avoid inhalation, contact with skin and eyes.

-6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

Prevent material from reaching sewage system, holes and cellars.

- 6.3 Methods and material for containment and cleaning up:

Use explosion proof equipments

Wear self-contained breathing apparatus and protective suit.

Ensure adequate ventilation.

For small amounts absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). For large amounts –pump off the material

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

7. Handling and Storage**-7.1 Precautions for safe handling**

Ensure thorough ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level (fumes are heavier than air).

Restrict the quantity stored in the work place.

Do not inhale vapours/aerosols.

Avoid skin and eye contact under any circumstances.

Wash the hands and face before breaks and at the end of the shift.

Do not eat, drink or smoke when handling the substance.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep fire extinguishers handy.

Protect against electrostatic charges.

- 7.2 Conditions for safe storage, including any incompatibilities



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- **Storage**

- **Requirements to be met by storerooms and containers:**

Store under shade at ambient temperature (<45^oC) & dry conditions in well-sealed containers.

Observe regulations for storage of flammable liquids.

Observe all local and national regulations for storage of water polluting products.

- **Information about storage in one common storage facility:**

Observe regulations for storage of flammable liquids.

- **Further information about storage conditions:**

Protect from heat and direct sunlight.

Store container in a well ventilated place.

Protect from overexposure to light.

Protect from humidity and keep away from water.

- **7.3 Specific end use(s)** Refer section 1.

8. Exposure Control/Personal Protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **8.1 Control parameters**

Components with workplace control parameters

- **Additional information:**

- **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 work day.

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Do not eat, drink or smoke while working.

Instantly remove any contaminated garments.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Wash hands during breaks and at the end of the work.

- **Breathing equipment:**

Self contained breathing apparatus with full face shield.

Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with Multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- **Protection of hands:**

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

Butyl rubber

Recommended thickness of the material: 0.5 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

Penetration time: \geq 4 hours

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed safety glasses. Wear face shield if splashing hazard exists.

- **Body protection:**

Use protective suit.

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Body protection must be chosen depending on activity and possible exposure.

9. Physical and Chemical Properties

-9.1 Information on basic Physical and Chemical Properties

General Information-

Appearance/Physical state /colour	Colourless to light yellow liquid
Explosive limit Upper	8.1 vol %
Lower	0.8 vol %
Odour	Ammonia like
Vapour pressure	6.9 hPa @ 20 °C
Odour Threshold	No data available
Relative Vapour density	3.35 (air=1)
PH (10% in water)	12 @ 20 °C
Density	0.856 0 g/ml @ 20 °C
Melting point/freezing point	< -70.0 °C
Solubility in water	Soluble
Initial Boiling Point/Boiling Range	136-138 °C
Flash Point	33 °C (c.c)
Evaporation Rate	No data available
Flammability (solid, gas)	Not Applicable
Partition Coefficient : n-Octanol Water	Log Pow= 0.07
Auto ignition Temperature	245°C
Decomposition temperature	No data available
Viscosity- dynamic	No data available
Kinematic	No data available
Danger of Explosion	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

-9.2 Other Information- Not available

10. Stability and Reactivity

-10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

- 10.2 Chemical stability

Substance is stable under recommended conditions.

- Thermal decomposition / conditions to be avoided:

Avoid source of ignition , heat, spark or open flame.

- 10.3 Possibility of hazardous reactions

Exothermic reaction with -

acids ,

acid anhydrides,

acid chlorides

strong oxidizing agents

- 10.4 Conditions to avoid :No further relevant information available.

- 10.5 Incompatible materials:

Strong oxidising agents. , acids, acid anhydrides, acid chlorides

- 10.6 Hazardous decomposition products:

Carbon monoxide, carbon dioxide, Nitrogen oxide (NO_x)

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11. Toxicological Information

-11.1 Information on Toxicological effects

Acute Toxicity –

LD50/LC50 value that are relevant for classification

LD50 (mouse, intravenous) 178 mg/kg (Ref- RTECS No-UI2700000)

LD50 Dermal (Rat) No data available

LC50 inhalation , Rat No data available

Skin corrosion/irritation Irritant to skin and mucous membrane

Serious eye damage/eye irritation Irritating effect

Respiratory/skin sensitization May cause chemical burns to respiratory track with dizziness or suffocation.

Germ cell mutagenicity No mutagenic effects observed in laboratory test animals.

Carcinogenicity IARC- No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive Toxicity No data available

Additional Toxicological Information-

Substance extremely destructive to the tissue of mucus membrane and upper respiratory tract, eyes and skin.

12. Ecological Information

-12.1 Toxicity

-Aquatic toxicity:

Toxicity to Fish No data available

Toxicity to Daphnia and other invertebrates No data available

(Daphnia Magna) EC50

Toxicity to algae (Desmodesmus subspicatus) No data available

EC50

-12.2 Persistence and degradability

, Readily biodegradable in water

-12.3 Bioaccumulative potential

Log Pow = 0.07 indicate that Substance is not expected to accumulate in organisms..

-12.4 Mobility in soil No further relevant information available.

-Additional ecological information:

Water hazard class-1 , slight hazardous to water.)

- 12.5 Results of PBT and vPvB assessment

. PBT/vPvB assessment not available as chemical safety assessment not conducted

- 12.6 Other adverse effects : Not known based on available information.

13. Disposal Consideration

-13.1 Waste treatment methods

-Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Waste disposal key number:** According to local/national regulations.

-European waste catalogue:

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

-- Uncleaned packagings:

-**Recommendation:** Disposal must be made according to official regulations. Drum decontamination shall be done by initially rinsing with 5% aqueous solution followed by water washing till neutral PH. It is strongly recommended to disfigure the container/drum before disposal.

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14. Transport Information

	Section	ADR	IATA	IMDG
UN Number	14.1	2734	2734	2734
UN Proper Shipping Name	14.2	Amine, liquid, corrosive, flammable, N.O.S	Amine, liquid, corrosive, flammable, N.O.S	Amine, liquid, corrosive, flammable, N.O.S
Transport Hazard Class (es)	14.3	8	8	8
Subsidiary Risk		3	3	3
Packing Group	14.4	II	II	II
Environmental Hazard/Marine Pollutant	14.5	No	No	No
Special Precautions for User	14.6	No data available	No data Available	Corrosive liquid
ADR Tunnel restriction code		2(D/E)	Not Applicable	Not Applicable
Classification code		CF1	Not Applicable	Not Applicable
HIN		83	Not Applicable	Not Applicable
EMs		Not Applicable	Not Applicable	F-E , S-C
Transportation in Bulk according to Annex II of Marpol and IBC code	14.7	Not Applicable	Not Applicable	Not Applicable
Product Name		-	-	-
Ship Type		-	-	-
Pollution Category		-	-	-

15. Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Information about limitation of use: Employment restrictions concerning young persons must be observed.
- Decree to be applied in case of technical fault:
Quantity limits according to "EC Seveso directive" should be observed.

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- **Water hazard class:** Water hazard class 1: Slightly hazardous for water
- **Other regulations, limitations and prohibitive regulations**
Observe restrictions on the marketing and use according to Annex XVII of Regulation (EC) No 1907/2006.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16. Other Information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Dept Issuing MSDS- R&D

Only Representative : Global Product Compliance (Europe)AB, Lund , Sweden

e-mail: sk@reach-onlyrep.eu info@gpcregulatory.com

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ref-

- 1) Regulation (EC) No 1272/2008 of the European Parliament and of the Council
- 2) Guidance on the compilation Safety Data Sheet publish by ECHA Ver. 2.1 Feb 2014
- 3) European Chemicals Agency, <http://echa.europa.eu/>
- 4) Toxnet HSDB
- 5) GESTIS Substance data base
- 6) Registry of Toxic Effects of chemical substances