# ALKYL

# COMMISION REGUALTION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

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# 1. Identification Of the Substance

- · 1.1 Product identifier
- · Product name: 2-ethoxyethylamine
- · CAS Number:

110-76-9

· EC number:

203-801-5

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

Chemical for various applications

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer / Supplier:

Alky Amines Chemicals Ltd.

401-407, Nirman Vyapar Kendra, Plot No-10

Sect- 17, Vashi Navi Munbai-400 703

Emergency contact no: +91 2192 261305 / 261329 , Mobile No- +919881973507

Emergency contact No for US only: +1 703 527 3887 / 800 424 9300

- · E-mail address of the competent person responsible for the Safety Data Sheet: rsattigeri@alkylamines.com
- · Informing department: R&D
- · 1.4 Emergency telephone number: As above.

# 2. Hazard Identification

-2.1 Classification of the substance or mixture

Classification according to Regulation EC No- 1272/2008



GHS02 Flame

Flammable Liquid Cat.2 H225- Highly flammable liquid and vapour



**GHS05** Corrosion

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



GHS07

Acute Toxicity Cat. -4 H302 - Harmful if swallowed

Acute Tox-4 H312 - Harmful in contact with skin.

# Information concerning particular hazards for human and environment:

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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#### · Hazard pictograms



GHS05

-Signal word Danger

Hazard statements

GHS02

**H225** Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H314- Causes severe skin burns and eye damage

H312 Harmful in contact with skin.

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P280 Wear protective gloves/protective clothing/eye protection/face protection.

GHS07

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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:

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · vPvB: Not applicable.

### 3. Composition / information On Ingredients

Description	CAS No	EC No	Content (% w/w)
2-Ethoxyethyamine	110-76-9	203-801-5	>99.5

Molecular Formula - C4H11NO

Molecular Wt – 89.14 g/mole

# 4.Firstaid Measures

- · 4.1 Description of first aid measures
- · General information:

Immediately remove any clothing contaminated by the product.

Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended

Personal protection for the person providing first aid.

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· After inhalation: In case of unconsciousness bring patient into stable side position for transport.

#### · After skin contact:

Instantly rinse with water.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

# · After eye contact:

Rinse opened eye for several minutes under running water.

Use eye protection.

Call a doctor immediately.

### · After swallowing:

*Drink copious amounts of water and provide fresh air. Instantly call for doctor.* 

Do not induce vomiting - Danger of perforation!

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 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 Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents none
- · 5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)

Carbon monoxide (CO) and Carbon dioxide (CO2)

Can form explosive vapour-air mixtures.

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

#### · Additional information

Cool endangered containers with water spray jet.

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

If without risk possible, move drums with material away from dangerous area.

#### 6. Accidental Release Measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Remove all ignition sources.

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

Avoid 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:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

Use neutralizing agent.

weak acid solution

### · 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

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#### 7. Handling and Storage

# · 7.1 Precautions for safe handling

Ensure good 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.

#### · Information about protection against explosions and fires:

Fumes can combine with air to form an explosive mixture.

Flammable fume/air mixtures may be formed in empty containers.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### · 7.2 Conditions for safe storage, including any incompatibilities

· Storage

#### · Requirements to be met by storerooms and containers:

Store under shade at ambient temperature ( $<45^{\circ}$ C) & 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.

· 7.3 Specific end use(s) No further relevant information available.

# 8. Exposure Control and Personal Protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- · Components with critical values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any contaminated garments.

Do not eat, drink or smoke while working.

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:

*Use breathing protection with high concentrations.* 

Use breathing protection when aerosol or mist is formed.

# · Protection of hands:

Protective gloves

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.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

#### · Material of gloves

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

Protective gloves should be replaced at first signs of wear.

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





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#### · Eye protection:

Tightly sealed safety glasses

Face shield

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

General information on basic physical a	and chemical properties
Appearance/Physical state /colour	Colourless liquid
Explosive limit Upper	11.2 vol %
lower	1.9 vol %
Odour	ammonia like
Vapour pressure	25 hPa @ 20 °C
Odour Threshold	No data available
Vapour density	No data available
PH (10% in water)	11.9 @ 20 °C
Density	0.8510g/cm3@ 20°C
Melting point/freezing point	-50 °C
Solubility in water	Soluble
Initial Boiling Point/Boiling Range	107-108°C
Flash Point	20 °C
Evaporation Rate	No data available
Flammability (solid, gas)	Not Applicable
Partition Coefficient : n-Octanol Water	Log Pow= 1.5
Auto ignition Temperature	265 °C
Decomposition temperature	No data available
Viscosity- dynamic	0.79 m Pas @ 20 °C
Kinematic	No data available
Danger of Explosion	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

**9.2 Other Information-** No further relevant information available

# 10. Stability and Reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

Avoid impact, friction, heat, sparks, electrostatic charges.

· 10.3 Possibility of hazardous reactions

Possibility of formation of nitrosamines with nitrites or other nitrosating agents

Strong exothermic reaction with acids.

Flammable vapour-air mixtures may develop.

Used empty containers may contain product gases which form explosive mixtures with air.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Strong oxidizing agents

Nitrosating agents

Strong acids

· 10.6 Hazardous decomposition products:

Nitrogen oxides (NOx)

Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>).



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### 11.Toxicological Information

# 11.1 Information on toxicological effects-

Acute Toxicity-

LD/LC50 values relevant for classification-

LD50 Rat oral	950 mg/kg
LD50 Rat dermal	>1000 mg/kg
LC50 Rat inhalation	> 7.6 mg/L/4hrs

Primary skin Irritation/ corrosion effect-

#### Method BASF Test-

**Results-** Animals (2, rats )were treated to test substance for 3min or 1hr using occlusive conditions and further they were observed for 8 days for skin changes. Substance found to be corrosive (1B)

### Serious eye damage/eye irritation

Direct contact with material may produce pain and burn. Oedema, destruction of the epithelium, corneal opacification and iritis may occur. In less severe cases these symptoms tend to resolve.

#### Respiratory or skin sensitisation

Material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. This may further produce lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

#### Germ cell mutagenicity

No data available

### 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

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

# Aspiration hazard

No data available

# 12. Ecological Information

- · 12.1 Toxicity
- · Aquatic toxicity:

4	
LC50 96 Hrs Scophtalmus maximus	>1000 mg/L
LC50 48 Hrs Acatia Tonsa	>211 mg/L
EC50 72 Hrs Skeletonema costatum	152 mg/L

(Ref- ECHA dossier for 2-Ethoxyethylamine)

#### · 12.2 Persistence and degradability

Readily biodegradable: 90-100 % (17 d).

- · Other information: no data available
- · 12.3 Bioaccumulative potential

Due to water solubility and small molecular size, the substance is not expected to be bioaccumulative.

· 12.4 Mobility in soil No further relevant information available.



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#### · Additional ecological information:

- · General notes: Water danger class 3 (Self-assessment): extremely hazardous for water.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · **vPvB**: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# 13. Disposal Consideration

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- · 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. Decontamination of the drum shall be done by washing with 5% aqueous acetic acid solution followed by water washings till neutral PH. It is strongly recommended to disfigure the container/drum before disposal.

# 14. Transport Information

	Section	ADR	IATA	IMDG
UN Number	14.1	2733	2733	2733
UN Proper Shipping Name	14.2	Amines, flammable, corrosive, N.O.S	Amines, flammable, corrosive, N.O.S	Amines, flammable, corrosive, N.O.S
Transport Hazard Class (es)	14.3	3	3	3
Subsidiary Risk		8	8	8
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	Flammable liquid
ADR Tunnel restriction code		2/(D/E)	Not Applicable	Not Applicable
Classification code		FC	Not Applicable	Not Applicable
HIN		338	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	No data available
Product Name		-	-	



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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.

- · Water hazard class: Water danger class 3 (Self-assessment): extremely 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

This information is based on our present knowledge. However, this 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:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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)

GHS: Globally Harmonized System of Classification and Labeling 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
- Guidance on the compilation Safety Data Sheet publish by ECHA Ver. 2.1 Feb 2014 2)
- 3) Chem-watch Gold MSDS for 2-ethoxyethylamine