

| 2-Ethylhexylamine  |
|--------------------|
| 10060              |
| Version / Revision |
| Supersedes Version |

7 6.00\*\*\* Revision Date Issuing date 27-Oct-2020 27-Oct-2020

## **SECTION 1: Identification**

## 1.1. Product identifier

| Identification of the |
|-----------------------|
| substance/preparation |

CAS-No

## 104-75-6

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

2-Ethylhexylamine

| Use of the Substance / | Intermediate |
|------------------------|--------------|
| Preparation            |              |
| Uses advised against   | None         |

## 1.3. Details of the supplier of the safety data sheet

| Supplier            | OQ Chemicals Corporation<br>15375 Memorial Drive<br>West Memorial Place I<br>Suite 300<br>Houston, TX 77079<br>USA<br>Phone +1 346 378 7300 |
|---------------------|---|
| Product Information | Product Stewardship<br>FAX: +49 (0)208 693 2053<br>email: sc.psq@oq.com   |

## 1.4. Emergency telephone number

| Emergency telephone number | NCEC +1 202 464 2554 |
|----------------------------|----------------------|
|                            | available 24/7       |

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Acute oral toxicity Category 4, H302 Acute inhalation toxicity Category 2, H330 Skin corrosion/irritation Category 1A, H314 Serious eye damage/eye irritation Category 1, H318 Flammable liquid Category 3, H226

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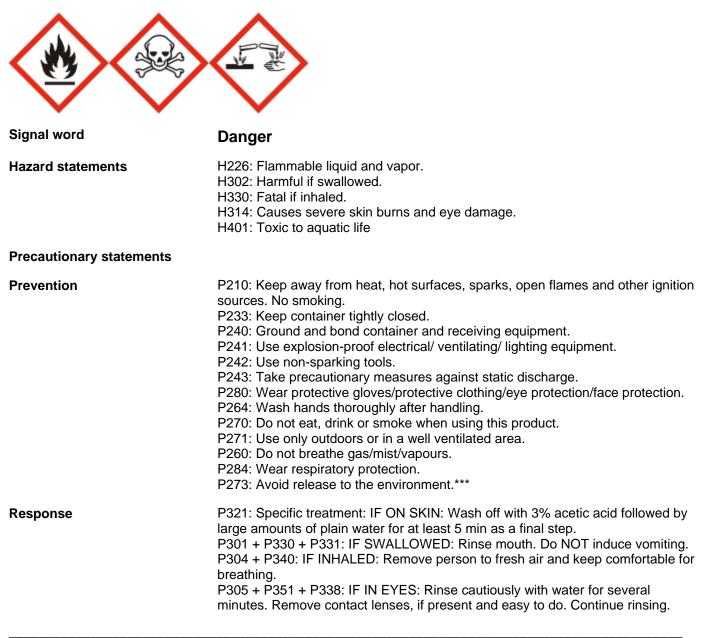
Environmental hazard Aquatic Acute 2; H401

**OSHA Specified Hazards** Not applicable.

## 2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

#### Hazard symbol(s)





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|----------------------------|--|
|                            | P310: Immediately call a POISON CENTER/doctor.<br>P361: Take off immediately all contaminated clothing and wash it before reuse. |
| Storage                    | P403 + P235: Store in a well ventilated place. Keep cool.<br>P405: Store locked up.  |
| Disposal                   | P501: Dispose of contents/container in accordance with local regulation.   |

## 2.3. Other hazards

Vapour/air-mixtures are explosive at intense warming Components of the product may be absorbed into the body through the skin

## **SECTION 3: Composition / information on ingredients**

## 3.1. Substances

| Component         | CAS-No   | Concentration (%) |
|-------------------|----------|-------------------|
| 2-Ethylhexylamine | 104-75-6 | > 99,0            |

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. Call a physician immediately. Symptoms of poisoning may develop many hours after exposure.

#### Skin

Wash off with 3% acetic acid followed by large amounts of plain water for at least 5 min as a final step. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

#### Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

## 4.2. Most important symptoms and effects, both acute and delayed

#### Main symptoms

shortness of breath, convulsions, cough, hypertensive effect.

#### **Special hazard**

Stomach perforation, Lung oedema.

## 4.3. Indication of any immediate medical attention and special treatment needed

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#### General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat as an alkaline substance (similar to ammonia). If ingested, irrigate the stomach. Treat skin and mucous membranes with antihistamine and corticoids. In case of lung irritation, first treatment with cortisone spray. Symptoms may be delayed. Later control for pneumonia and lung oedema.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water spray

#### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

## 5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of: carbon monoxide (CO) carbon dioxide (CO2) nitrogen oxides (NOx) Combustion gases of organic materials must in principle be graded as inhalation poisons Vapours are heavier than air and may spread along floors Vapour/air-mixtures are explosive at intense warming

## **5.3. Advice for firefighters**

## Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

#### **Precautions for firefighting**

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Water run-off and vapor cloud may be corrosive. Keep people away from and upwind of fire.

## **SECTION 6: Accidental release measures**

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

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition. For emergency responders: Personal protection see section 8.

## 6.2. Environmental precautions

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Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

## 6.3. Methods and material for containment and cleaning up

## Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

#### Methods for cleaning up

Soak up with inert absorbent material. DO NOT use combustible materials such as sawdust. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

## 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes and clothing. Do not use compressed air for filling, discharging or handling. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms. Refill and handle product only in closed system.

#### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

#### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

## Incompatible products

strong acids oxidizing agents

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

## Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour/air-mixtures are explosive at intense warming.

## **Technical measures/Storage conditions**

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Handle under nitrogen, protect from moisture. Keep at temperatures between -1 and 38 °C (30 and 100 °F).

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# Unsuitable material copper, including their alloys

## **SECTION 8: Exposure controls / personal protection**

## 8.1. Control parameters

## **Exposure limits United States of America**

No exposure limits established regarding ACGIH, OSHA Z-1 and OSHA Z-2.

## 8.2. Exposure controls

#### **Appropriate Engineering controls**

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

#### Individual protection measures, such as personal protective equipment

#### General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Hygiene measures**

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

## Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

#### Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

| Suitable material  | nitrile rubber                                |
|--------------------|---|
| Evaluation         | according to EN 374: level 4                  |
| Glove thickness    | approx 0,55mm                                 |
| Break through time | approx 100min                                 |
| Suitable material  | polyvinylchloride                             |
| Evaluation         | Information derived from practical experience |
| Glove thickness    | approx 0,8 mm                                 |

#### Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

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Respiratory protection

Respirator with filter for ammonia vapour and ammonia derivatives (K Filter). Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (vapor or mist). Equipment should conform to NIOSH.\*\*\*

## Environmental exposure controls

Use product only in closed system. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

| Appearance<br>Colour<br>Odour<br>Odour threshold<br>pH<br>Melting point/range<br>Method<br>Boiling point/range<br>Method<br>Flash point<br>Method<br>Evaporation rate<br>Flammability (solid, gas)<br>Lower explosion limit<br>Upper explosion limit |                            | liquid<br>colourless<br>ammonia-like<br>No data available<br>11,5 (1 g/l in water @ 20 °C (68 °F)) DIN 19268<br>< -130 °F (< -90 °C) (Pour point) @ 1013 hPa<br>DIN ISO 3016<br>330,1 °F (165,6 °C) @ 1 atm (101,3 kPa)<br>OECD 103<br>127,4 °F (53 °C) @ 1013 hPa<br>closed cup, DIN EN ISO 2719, ASTM D-93<br>No data available<br>Does not apply, the substance is a liquid<br>1,1 Vol %<br>10,8 Vol % |  |                   |                                       |
|--|----------------------------|---|--|-------------------|---------------------------------------|
| Vapour pressure<br>Values [hPa]<br>3<br>58   | Values [kPa]<br>0,3<br>5,8 | Values [atm]<br>0,002<br>0,057  | @°C<br>20<br>80  | @ °F<br>68<br>176 | Method<br>DIN EN<br>13016-2<br>DIN EN |
| Vapour density   |                            | 4,46 (Air = 1)  | @ 20 °C (68  | °F)               | 13016-2                               |
| Relative density<br>Values<br>0,788<br>Solubility<br>log Pow<br>Autoignition temp<br>Method<br>Decomposition ter<br>Viscosity<br>Method  | 2<br>erature               | °C<br>0<br>2,2 g/l @ 20 °<br>1,8 @ 25 °C (<br>527 °F (275 °<br>DIN 51794***<br>No data availa<br>1,12 mPa*s (<br>ASTM D445,   | 77 <sup>°</sup> F)<br>C) @ 989 hP<br>able<br>@ 68 °F (20 | a***              |                                       |

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## 9.2. Other information

| Molecular weight<br>Molecular formula<br>log Koc | 129,24<br>C8 H19 N<br>3,91 @ pH 7 @ 25 °C calculated  |
|--|---|
| Dissociation constant                            | pKa 10,5 @ 24,2 °C (75,6 °F), OECD 112***   |
| Oxidizing properties                             | Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties |
| Explosive properties                             | Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties |
| Surface tension                                  | 39 mN/m @ 20 °C (68 °F)***  |

## **SECTION 10: Stability and Reactivity**

## 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

## **10.2. Chemical stability**

Stable under recommended storage conditions.

## **10.3.** Possibility of hazardous reactions

Hazardous polymerisation does not occur.

## **10.4. Conditions to avoid**

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

## **10.5.** Incompatible materials

strong acids, oxidizing agents.

## **10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed. If heated to thermal decomposition the following decomposition products may occur depending on the conditions. carbon monoxide (CO). nitrogen oxides (NOx). cyanides. nitric acid. nitriles.

## **SECTION 11: Toxicological information**

## **11.1. Information on toxicological effects**

Likely routes of exposure Ingestion, Inhalation, Eye contact, Skin contact

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Main symptoms

shortness of breath, convulsions, cough, hypertensive effect.

## Target Organ Systemic Toxicant - Single exposure

Based on available data, the classification criteria are not met for: STOT SE

#### **Target Organ Systemic Toxicant - Repeated exposure**

Based on available data, the classification criteria are not met for: STOT RE

## Acute toxicity

| 2-Ethylhexylamine (104-75-6) |          |                   |                  |          |
|------------------------------|----------|-------------------|------------------|----------|
| Routes of Exposure           | Endpoint | Values            | Species          | Method   |
| Oral                         | LD50     | 316 mg/kg         | rat, male/female |          |
| Inhalative                   | LC50     | < 1,548 mg/l (4h) | rat, male/female | OECD 403 |

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#### Assessment

The available data lead to the classification given in section 2

## Irritation and corrosion

| 2-Ethylhexylamine (104-75-6) |         |           |             |  |  |
|------------------------------|---------|-----------|-------------|--|--|
| Target Organ Effects         | Species | Result    | Method      |  |  |
| Skin                         | rabbit  | corrosive | OECD 404*** |  |  |
| Eyes                         | rabbit  | corrosive |             |  |  |

#### 2-Ethylhexylamine, CAS: 104-75-6

#### Assessment

The available data lead to the classification given in section 2 For respiratory irritation, no data are available

| Sensitization           |         |                 |        |  |
|-------------------------|---------|-----------------|--------|--|
| 2-Ethylhexylamine (104- | -75-6)  |                 |        |  |
| Target Organ Effects    | Species | Evaluation      | Method |  |
| Skin                    | mouse   | not sensitizing | MEST   |  |

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#### Assessment

Based on available data, the classification criteria are not met for: Skin sensitization For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity 2-Ethylhexylamine (104-75-6) Туре Dose Species Method Subacute toxicity NOAEL: 100 mg/kg/d rat, male/female OECD 422 Oral\*\*\* read across OECD 413\*\*\* Subchronic toxicity\*\*\* NOAEC: 25 mg/m<sup>3</sup> rat. male/female\*\*\* Inhalation\*\*\* (90 d) Local effects\*\*\*



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| Subchronic toxicity*** | NOEC: 125 mg/m <sup>3</sup><br>(90 d) systemic<br>effects*** | rat, male/female*** | OECD 413*** | Inhalation*** |
|------------------------|--|---------------------|-------------|---------------|
|------------------------|--|---------------------|-------------|---------------|

#### 2-Ethylhexylamine, CAS: 104-75-6

#### Assessment

Based on available data, the classification criteria are not met for: STOT RE

| Carcinogenicity, Muta        | agenicity, Reprodu     | ctive toxicity            |            |  |  |
|------------------------------|------------------------|---------------------------|------------|--|--|
| 2-Ethylhexylamine (1         | 04-75-6)               |                           |            |  |  |
| Туре                         | Dose                   | Species                   | Evaluation | Method   |  |
| Carcinogenicity              | No data available      |                           |            |  |  |
| Mutagenicity                 |                        | Salmonella<br>typhimurium | negative   | OECD 471<br>(Ames)                               | In vitro study   |
| Mutagenicity                 |                        | mouse lymphoma<br>cells   | negative   | OECD 476<br>(Mammalian<br>Gene Mutation)<br>HPRT | In vitro study read<br>across                              |
| Mutagenicity                 |                        | mouse                     | negative   | OECD 474   | in vivo read<br>across                                     |
| Reproductive toxicity        | NOAEL 100<br>mg/kg/d   | rat,<br>male/female***    |            | OECD 422, Oral                                   | Reproduction /<br>developmental<br>Toxicity read<br>across |
| Developmental<br>Toxicity*** | NOAEL 75<br>mg/kg/d*** | rat***                    |            | OECD 414,<br>Oral***                             | Maternal toxicity<br>Developmental<br>toxicity***          |

## 2-Ethylhexylamine, CAS: 104-75-6

#### **CMR Classification**

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

#### Evaluation

In vitro tests did not show mutagenic effects Did not show mutagenic effects in animal experiments No developmental effects in the absence of maternal toxicity For carcinogecity, no data are available\*\*\*

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#### Aspiration toxicity

no data available Due to the viscosity, this product does not present an aspiration hazard

#### Other adverse effects

Components of the product may be absorbed into the body through the skin.

#### Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

http://echa.europa.eu/information-on-chemicals/registered-substances.



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## **SECTION 12: Ecological information**

## 12.1. Toxicity

| Acute aquatic toxicity       |               |  |                                |
|------------------------------|---------------|--|--------------------------------|
| 2-Ethylhexylamine (104-75-6) |               |  |                                |
| Species                      | Exposure time | Dose   | Method                         |
| Daphnia magna (Water flea)   | 24h           | EC50: 2,2 mg/l                                 | DIN 38412, part 11<br>Mobility |
| Leuciscus idus (Golden orfe) | 96h           | EC50: >100 - < 500 mg/l<br>(neutralized)       | DIN 38412, part 15             |
| Leuciscus idus (Golden orfe) | 96h           | EC50: >46,4 - < 68,1 mg/l<br>(not neutralized) | DIN 38412, part 15             |
| Desmodesmus subspicatus      | 72h           | EC50: 10,8 mg/l (Growth rate)                  | OECD 201                       |
| Activated sludge (domestic)  | 30 min        | EC50: ~ 600 mg/l                               | OECD 209                       |

| Long term toxicity      |                               |                          |          |  |
|-------------------------|-------------------------------|--------------------------|----------|--|
| 2-Ethylhexylamine (104- | 75-6)                         |                          |          |  |
| Туре                    | Species                       | Dose                     | Method   |  |
| Aquatic toxicity        | Desmodesmus<br>subspicatus*** | EC10: 3,4 mg/l (72<br>h) | OECD 201 |  |

## 12.2. Persistence and degradability

## 2-Ethylhexylamine, CAS: 104-75-6

Biodegradation

70 - 80 % (28 d), activated sludge, non-adapted, domestic, aerobic, ISO 14593.

| Abiotic Degradation          |                             |               |
|------------------------------|-----------------------------|---------------|
| 2-Ethylhexylamine (104-75-6) |                             |               |
| Туре                         | Result                      | Method        |
| Hydrolysis                   | not expected***             |               |
| Photolysis                   | Half-life (DT50): 9,45 h*** | calculated*** |

## 12.3. Bioaccumulative potential

| 2-Ethylhexylamine (104-75-6) |                      |               |
|------------------------------|----------------------|---------------|
| Туре                         | Result               | Method        |
| log Pow                      | 1,8@25 °C (77 °F)*** |               |
| BCF***                       | 24,9***              | calculated*** |

## 12.4. Mobility in soil

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|------------------------------|
|------------------------------|





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| Туре                  | Result   | Method      |
|-----------------------|--|-------------|
| Surface tension       | 39 mN/m @ 20 °C (68 °F)***   | OECD 115*** |
| Adsorption/Desorption | log Koc: 3,91 @ pH 7 @ 25 °C   | calculated  |
|                       | Percent distribution in Media: Air:<br>72,5% Soil: 1,3% Water: 24,9%<br>Sediment: 1,3% Suspended | calculated  |
|                       | sediment: 0% Biota: 0%   |             |

## 12.5. Results of PBT and vPvB assessment

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#### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## 12.6. Other adverse effects

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No data available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### **Product Information**

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

## Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## **SECTION 14: Transport information**

## D.O.T. (49CFR)

| 14.1. UN number                    | UN 2276           |
|------------------------------------|-------------------|
| 14.2. UN proper shipping name      | 2-Ethylhexylamine |
| 14.3. Transport hazard class(es)   | 3                 |
| Subsidiary Risk                    | 8                 |
| 14.4. Packing group                | III               |
| 14.5. Environmental hazards        | no                |
| 14.6. Special precautions for user |                   |

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|---|----------------------|
| Emergency Response Guide                      | 132                  |
| ICAO-TI / IATA-DGR                            |                      |
| 14.1. UN number                               | UN 2276              |
| 14.2. UN proper shipping name                 | 2-Ethylhexylamine    |
| 14.3. Transport hazard class(es)              | 3                    |
| Subsidiary Risk                               | 8                    |
| 14.4. Packing group                           | III                  |
| 14.5. Environmental hazards                   | no                   |
| 14.6. Special precautions for user            | no data available    |
| IMDG  |                      |
|   | UN 2276              |
| 14.1. UN number                               |                      |
| 14.2. UN proper shipping name                 | 2-Ethylhexylamine    |
| 14.3. Transport hazard class(es)              | 3                    |
| Subsidiary Risk                               | 8<br>                |
| 14.4. Packing group                           |                      |
| 14.5. Environmental hazards                   | no                   |
| 14.6. Special precautions for user            |                      |
| EmS   | F-E, S-C             |
| 14.7. Transport in bulk according to Annex II |                      |
| of MARPOL and the IBC Code                    |                      |
| Product name                                  | 2-Ethylhexylamine    |
| Ship type                                     | 2<br>Y               |
| Pollution category                            | T                    |

## SECTION 15: Regulatory information

## **Federal and State Regulations**

Components of the product are listed in the quoted regulations. For details please refer to the regulations directly. This list is not exhaustive, please check for other applicable regulations.

## **Federal Regulations**

This product is listed on the TSCA inventory

## State Regulations

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MA RTK List NJ RTK List NY RTK List PA RTK List

#### International Inventories

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AICS (AU) DSL (CA) IECSC (CN) EC-No. 2032338 (EU) ENCS (2)-133 (JP) ISHL (2)-133 (JP) KECI KE-13782 (KR) INSQ (MX) PICCS (PH) TSCA (US) NZIoC (NZ) TCSI (TW)

## **SECTION 16: Other information**

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#### Hazard Rating Systems

| NFPA (National Fire Pro                | otection Association)             |
|--|-----------------------------------|
| Health Hazard                          | 2                                 |
| Fire Hazard                            | 2                                 |
| Reactivity                             | 0                                 |
|  |                                   |
| HMIS (Hazardous Mater                  | ial Information System)           |
| HMIS (Hazardous Mater<br>Health Hazard | ial Information System)<br>3      |
| •                                      | ial Information System)<br>3<br>2 |

#### Training advice

For effective first-aid, special training / education is needed.

#### Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

#### Further information for the safety data sheet

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage (www.chemicals.oq.com).

The use of a comma in section 3 and section 7 to 12 is the same as a period.

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## Disclaimer

**For industrial use only.** The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

End of Safety Data Sheet