# Safety data sheet
**according to UK REACH**

*Printing date 10.12.2024* *Version: 5.00 (replaces version 4.01)* *Revision: 27.09.2024*

* 
## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier**

**Trade name: SONAX Cleanstar -EVOLUTION-**

**Article number:**
06766000, 06767050, 06768000, 06769000
**UFI:** 4896-40C3-300K-2PPY
**1.2 Relevant identified uses of the substance or mixture and uses advised against**
**Application of the substance / the mixture**
Car care product
Detergents
Professional uses
**Uses advised against** Consumer uses: Private households / general public / consumers

**1.3 Details of the supplier of the safety data sheet**
**Manufacturer/Supplier:**
SONAX GmbH
Münchener Straße 75
D-86633 Neuburg (Donau)
Tel.: ++49 (0)8431/53-0

**Further information obtainable from:**
Product safety
E-mail: erp@sonax.de
Phone: + +49 (0) 8431 53 217
**United Kingdom:**
Anglo American Oil Company Ltd
58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT
Telephone: (+44) 01929 551557
Email: info@aaoil.co.uk

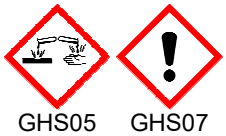
**1.4 Emergency telephone number:**
**European Union: +49 (0) 89 19240** (Poison Centre Munich)
**United Kingdom: 0344 892 0111** (UK NPIS)
Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111
In Northern Ireland, contact your local GP

* 
## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**
**Classification according to Regulation (EC) No 1272/2008**

| | |
|---|---|
| Met. Corr.1 | H290 May be corrosive to metals. |
| Skin Corr. 1B | H314 Causes severe skin burns and eye damage. |
| Eye Dam. 1 | H318 Causes serious eye damage. |
| STOT SE 3 | H335 May cause respiratory irritation. |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects. |

**2.2 Label elements**
**Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
**Hazard pictograms**



GHS05 GHS07

**Signal word** Danger

**Hazard-determining components of labelling:**
2-aminoethanol
C9-11 Alcohol ethoxylate
sodium hydroxide
Lauramine Oxide

(Contd. on page 2)

(Contd. of page 1)

**Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
**Precautionary statements**
P260 Do not breathe mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
**2.3 Other hazards**
**Results of PBT and vPvB assessment**
**PBT:**
According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT
**vPvB:**
According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB.
**Determination of endocrine-disrupting properties**
The substance/mixture does not contain components considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

* 
## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**
**Description:** Alkaline tenside solution

| **Dangerous components:** | | |
|---|---|---|
| CAS: 141-43-5<br>EINECS: 205-483-3<br>Reg.nr.: 01-2119486455-28-xxxx | 2-aminoethanol<br>Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412<br>Specific concentration limit: STOT SE 3; H335: C ≥ 5 % | 15-<20% |
| CAS: 68439-46-3 | C9-11 Alcohol ethoxylate<br>Eye Dam. 1, H318; Acute Tox. 4, H302 | 5-<10% |
| CAS: 1310-73-2<br>EINECS: 215-185-5<br>Reg.nr.: 01-2119457892-27-xxxx | sodium hydroxide<br>Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318<br>Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 %<br>Skin Corr. 1B; H314: 2 % ≤ C < 5 %<br>Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %<br>Eye Irrit. 2; H319: 0.5 % ≤ C < 2 % | 3-<5% |
| CAS: 308062-28-4<br>EC No 931-292-6<br>Reg.nr.: 01-2119490061-47-xxxx | Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides<br>Alternative CAS number: 70592-80-2<br>Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315 | 3-<5% |
| CAS: 1554325-20-0 | Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride<br>Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315 | 3-<5% |

| **Regulation (EC) No 648/2004 on detergents / Labelling for contents** | |
|---|---|
| non-ionic surfactants | ≥5 - <15% |
| amphoteric surfactants, cationic surfactants | <5% |

**Additional information:** For the wording of the listed hazard phrases refer to section 16.



(Contd. on page 3)

(Contd. of page 2)

## SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information:**
Immediately remove any clothing soiled by the product.
Take affected persons out of danger area and lay down.
**After inhalation:**
Supply fresh air.
Seek immediate medical advice.
In case of unconsciousness place patient stably in side position for transportation.
**After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
**After eye contact:**
Rinse opened eye for several minutes under running water.
Seek immediate medical advice.
**After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
**4.2 Most important symptoms and effects, both acute and delayed**
Eye irritation / Eye damage
Caustic effect on skin and mucous membranes.

**4.3 Indication of any immediate medical attention and special treatment needed**
Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**
**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
**For safety reasons unsuitable extinguishing agents:** Water with full jet
**5.2 Special hazards arising from the substance or mixture** No further relevant information available.
**5.3 Advice for firefighters**
**Protective equipment:**
The normal measures for firefighting are to be taken.
Wear fully protective suit.
Do not enter the hazardous area without a self-contained breathing apparatus.
See Section 8 for information on personal protection equipment.
**Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
**For non-emergency personnel**
Wear protective clothing.
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with the eyes and skin.
**For emergency responders** Wear protective equipment. Keep unprotected persons away.
**6.2 Environmental precautions:**
Do not allow to penetrate the ground/soil.
Do not allow to enter sewers/ surface or ground water.
**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).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
**6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.



(Contd. on page 4)

(Contd. of page 3)

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
When diluting always pour product into water and not vice versa.
**Information about fire - and explosion protection:** The product is not flammable.

**7.2 Conditions for safe storage, including any incompatibilities**
**Storage:**
**Requirements to be met by storerooms and receptacles:** Provide alkali-resistant floor.
**Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from metals.
Observe local/state/federal regulations.
**Further information about storage conditions:**
Keep container tightly sealed.
Store receptacle in a well ventilated area.
Protect from frost.
Recommended storage temperature: 20 °C.
Protect from heat and direct sunlight.
**7.3 Specific end use(s)** No further relevant information available.

* 

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

| **Ingredients with limit values that require monitoring at the workplace:** | |
|---|---|
| **CAS: 141-43-5 2-aminoethanol** | |
| WEL (Great Britain) | Short-term value: 7.6 mg/m³, 3 ppm<br>Long-term value: 2.5 mg/m³, 1 ppm<br>Sk |
| IOELV (EU) | Short-term value: 7.6 mg/m³, 3 ppm<br>Long-term value: 2.5 mg/m³, 1 ppm<br>Skin |
| OEL (Ireland) | Short-term value: 7.6 mg/m³, 3 ppm<br>Long-term value: 2.5 mg/m³, 1 ppm<br>Skin, IOELV |
| **CAS: 1310-73-2 sodium hydroxide** | |
| WEL (Great Britain) | Short-term value: 2 mg/m³ |
| OEL (Ireland) | Short-term value: 2 mg/m³ |

**Regulatory information**
WEL (Great Britain): EH40/2020
IOELV (EU): (EU) 2019/1831
OEL (Ireland): 2024 CoP for the Safety, Health and Welfare at Work

| **DNELs** | | |
|---|---|---|
| **CAS: 141-43-5 2-aminoethanol** | | |
| Dermal | DNEL | 3 mg/bw/day (worker) (chronic systemic effect) |
| Inhalative | DNEL | 0.51 mg/m³ (worker) (chronic locale effects) |
| | DNEL | 1 mg/m³ (worker) (chronic systemic effect) |
| **CAS: 1310-73-2 sodium hydroxide** | | |
| Inhalative | DNEL | 1 mg/m³ (worker) (longterm local effects) |
| | DNEL | 1 mg/m³ (consumer) (longterm local effects) |
| **CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides** | | |
| Oral | DNEL | 0.44 mg/kg bw/day (consumer) (acute systematic effects) |
| Dermal | DNEL | 5.5 mg/kg bw/day (consumer) (longterm systematic effects) |
| | | 11 mg/kg bw/day (worker) (longterm systematic effects) |
| Inhalative | DNEL | 3.8 mg/m³ (consumer) (longterm systematic effects) |
| | | 15.5 mg/m³ (worker) (longterm systematic effects) |

(Contd. on page 5)

(Contd. of page 4)

| PNECs | | |
|---|---|---|
| **CAS: 141-43-5 2-aminoethanol** | | |
| | PNEC | 100 mg/l (STP) |
| | | 0.07 mg/l (water (fresh water)) |
| | | 0.007 mg/l (water (sea water)) |
| | PNEC | 0.357 mg/kg (sediment (fresh water)) |
| | | 0.036 mg/kg (sediment (sea water)) |
| | | 1.29 mg/kg (soil) |
| **CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides** | | |
| Oral | PNEC | 11.1 mg/kg (food) |
| | PNEC | 24 mg/l (sewage plant) |
| | | 335 mg/l (water (intermittent release)) |
| | | 0.0335 mg/l (water (fresh water)) |
| | | 0.00335 mg/l (water (sea water)) |
| | PNEC | 5.24 mg/kg (sediment (fresh water)) |
| | | 0.524 mg/kg (sediment (sea water)) |
| | | 1.02 mg/kg (soil) |

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**
**Suitable technical control devices**
Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.
**Individual protection measures, such as personal protective equipment**
**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
**Respiratory protection:**
If the occupational exposure limit is exceeded:
The following breathing protection is recommended:
Filter P2
[DIN EN 14387]
**Hand protection** Protective gloves
**Material of gloves**
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.5 mm
[EN 374]
**Penetration time of glove material** Value for the permeation: Level 6 (≥480min)
**Eye/face protection**

Tightly sealed goggles

[EN 166]
**Body protection:** Alkaline resistant protective clothing

*

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**
**General Information**

| | |
|---|---|
| **Physical state** | Fluid |
| **Colour:** | Light yellow |
| **Odour:** | Pungent |
| **Melting point/freezing point:** | Undetermined. |

(Contd. on page 6)

(Contd. of page 5)

| | |
|---|---|
| **Boiling point or initial boiling point and boiling range** | ≥100 °C |
| **Flammability** | Not applicable. |
| **Lower and upper explosion limit** | |
| **Lower:** | Not applicable |
| **Upper:** | Not applicable |
| **Flash point:** | Not applicable. |
| **Decomposition temperature:** | Not determined. |
| **pH at 20 °C** | 13-14 |
| **Viscosity:** | |
| **Kinematic viscosity at 40 °C** | <20.5 mm²/s |
| **Dynamic:** | Not determined. |
| **Solubility** | |
| **water:** | Fully miscible. |
| **Partition coefficient n-octanol/water (log value)** | Not determined. |
| **Vapour pressure:** | Not determined. |
| **Density and/or relative density** | |
| **Density at 20 °C:** | 1.09-1.1 g/cm³ |
| **Relative density** | Not determined. |
| **Vapour density** | Not determined. |

| | |
|---|---|
| **9.2 Other information** | |
| **Appearance:** | |
| **Form:** | Fluid |
| **Important information on protection of health and environment, and on safety.** | |
| **Ignition temperature:** | Product is not selfigniting. |
| **Explosive properties:** | Product does not present an explosion hazard. |
| **Change in condition** | |
| **Evaporation rate** | Not determined. |

| | |
|---|---|
| **Information with regard to physical hazard classes** | |
| **Explosives** | Void |
| **Flammable gases** | Void |
| **Aerosols** | Void |
| **Oxidising gases** | Void |
| **Gases under pressure** | Void |
| **Flammable liquids** | Void |
| **Flammable solids** | Void |
| **Self-reactive substances and mixtures** | Void |
| **Pyrophoric liquids** | Void |
| **Pyrophoric solids** | Void |
| **Self-heating substances and mixtures** | Void |
| **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| **Oxidising liquids** | Void |
| **Oxidising solids** | Void |
| **Organic peroxides** | Void |
| **Corrosive to metals** | May be corrosive to metals. |
| **Desensitised explosives** | Void |

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No dangerous reactions known.
**10.2 Chemical stability** Stable under normal conditions.
**10.3 Possibility of hazardous reactions** Exothermic reaction with strong acids
**10.4 Conditions to avoid** See Section 7 for information on safe handling.
**10.5 Incompatible materials:**
Store away from metals.
acids
**10.6 Hazardous decomposition products:** Corrosive gases/vapours



(Contd. on page 7)

(Contd. of page 6)

* 

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**Acute toxicity** Based on available data, the classification criteria are not met.

| | | |
|---|---|---|
| **LD/LC50 values relevant for classification:** | | |
| **CAS: 141-43-5 2-aminoethanol** | | |
| Oral | ATE | 1,089 mg/kg |
| Dermal | ATE | 1,010 mg/kg |
| Inhalative | ATE | 11 mg/l |
| **CAS: 68439-46-3 C9-11 Alcohol ethoxylate** | | |
| Oral | LD50 | >300-2,000 mg/kg (rat) |
| | ATE | 500 mg/kg |
| **CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides** | | |
| Oral | LD50 | 1,064 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| | LC50 / 96 h | 2.67 mg/l (Pimephales promelas) |
| **CAS: 1554325-20-0 Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride** | | |
| Oral | LD50 | >300-2,000 mg/kg (rat) |
| | ATE | 300.03 mg/kg |

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/irritation** Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** May cause respiratory irritation.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Additional toxicological information:**

| | | |
|---|---|---|
| **Repeated dose toxicity** | | |
| **CAS: 141-43-5 2-aminoethanol** | | |
| | NOEC / 42d | 1.24 mg/l (Oryzias latipes) (OECD 210) |
| **CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides** | | |
| Oral | NOAEL 90 d | 2,000 mg/kg (rat) (OECD 451) |
| | NOAEL | 2,000 mg/kg (rat) (OECD 451) |
| | | 88 mg/kg (rabbit) (OECD 408) |
| | | 25 mg/kg (Ratte) |

**11.2 Information on other hazards**
**Endocrine disrupting properties**
According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with health effects.

* 

## SECTION 12: Ecological information

**12.1 Toxicity**
Product is considered to be harmful to aquatic organisms. May have long-term harmful effects in aquatic environments.

| | |
|---|---|
| **Aquatic toxicity:** | |
| **CAS: 141-43-5 2-aminoethanol** | |
| DOC | >90 % |
| EbC50 / 48h | 2.1 mg/l (algae) (OECD 201) |

(Contd. on page 8)

(Contd. of page 7)

| | |
|---|---|
| EC50 / 21 d | 2.5 mg/l (Daphnia magna) (OECD 202) |
| LC50 / 96h | 349 mg/l (Cyprinus carpio) |
| EC50 / 48h | 27.04 mg/l (Daphnia magna) |
| EC50 / 72h | 21 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| ErC 50 / 72h | 2.8 mg/l (Pseudokirchneriella subcapitata) |
| LOEC / 41 d | 3.55 mg/l (Oryzias latipes) (OECD 210) |
| NOEC / 21 d | 0.85 mg/l (Daphnia magna) (OECD 202) |
| NOEC / 72 h | 1 mg/l (algae) (OECD 201) |
| **CAS: 68439-46-3 C9-11 Alcohol ethoxylate** | |
| EC50 / 48h | >1-10 mg/l (Daphnia magna) |
| EC50 / 72h | >1-10 mg/l (algae) |
| **CAS: 1310-73-2 sodium hydroxide** | |
| LC50 / 96 h | 196 mg/l (fish) |
| EC50 / 48h | 40.4 mg/l (Invertebrates) |
| **CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides** | |
| NOEC 302 d | 0.42 mg/l (Pimephales promelas) |
| EC10 / 18h | 24 mg/l (Pseudomonas putida) |
| EC50 / 48h | 3.1 mg/l (Daphnia magna) |
| EC50 / 72h | 0.143 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| NOEC / 21 d | 0.7 mg/l (Daphnia magna) (OECD 211) |
| NOEC / 28d | 0.067 mg/l (algae) |
| **CAS: 1554325-20-0 Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride** | |
| LC50 / 96 h | >10-100 mg/l (fish) |
| EC50 / 48h | >1-10 mg/l (daphnia) |
| EC50 / 72h | >1-10 mg/l (algae) |

**12.2 Persistence and degradability**
The surface-active substances contained in the product meet the requirement of the EU Detregent Regulation ( EC/648/2004 ) for ultimate biodegradability for surfactants in detergents.

| | |
|---|---|
| **CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides** | |
| Biodegradation | 90 % |

**12.3 Bioaccumulative potential**

| | |
|---|---|
| **CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides** | |
| log POW | 2.7 |

**12.4 Mobility in soil** No further relevant information available.
**12.5 Results of PBT and vPvB assessment**
**PBT:**
According to information provided in the supply chain, the mix conatins less than 0.1% of any substances classified as PBT
**vPvB:**
According to information provided in the supply chain, the mix conatins less than 0.1% of any substances classified as vPvB
**12.6 Endocrine disrupting properties**
According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.
**12.7 Other adverse effects**
**Additional ecological information:**
**General notes:**
The product does not contain organic complexing agents.
The product does not contain organically bounded halogens (AOX-free).
Do not allow product to reach ground water, water course or sewage system.

* 
## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**
**Recommendation** Waste must be disposed of while observing the local, official regulations.

(Contd. on page 9)

(Contd. of page 8)

| European waste catalogue | |
|---|---|
| 20 01 15* | Alkalines |
| HP8 | Corrosive |
| HP14 | Ecotoxic |

**Uncleaned packaging:**
15 01 10*: packaging containing residues of or contaminated by dangerous substances
**Recommendation:**
Packaging may be reused or recycled after cleaning.
15 01 02: plastic packaging
**Recommended cleansing agents:** Water

* 

## SECTION 14: Transport information

**14.1 UN number or ID number**
**ADR/RID/ADN, IMDG, IATA** UN1760

**14.2 UN proper shipping name**
**ADR/RID/ADN** 1760 CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE, SODIUM HYDROXIDE)
**IMDG, IATA** CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE, SODIUM HYDROXIDE)

**14.3 Transport hazard class(es)**

**ADR/RID/ADN**

**Class** 8 (C9) Corrosive substances.
**Label** 8

**IMDG, IATA**

**Class** 8 Corrosive substances.
**Label** 8

**14.4 Packing group**
**ADR/RID/ADN, IMDG, IATA** II

**14.5 Environmental hazards:**
**Marine pollutant:** No

**14.6 Special precautions for user** Warning: Corrosive substances.
**EMS Number:** F-A,S-B

**Transport/Additional information:**

**ADR/RID/ADN**
**Limited quantities (LQ)** 1L
**Transport category** 2
**Tunnel restriction code** E

**UN "Model Regulation":** UN 1760 CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE, SODIUM HYDROXIDE), 8, II

* 

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**European Directives:**
**Directive 2010/75/EU (VOC)** 15.00 %

(Contd. on page 10)

(Contd. of page 9)

***Catégorie SEVESO (DIRECTIVE 2012/18/EU)** not subject to*
***REGULATION (EU) 2019/1148***

| ***Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))*** |
|---|
| *None of the ingredients is listed.* |

| ***Annex II - REPORTABLE EXPLOSIVES PRECURSORS*** |
|---|
| *None of the ingredients is listed.* |

***National regulations:***

***Information about limitation of use:***
*Employment restrictions concerning juveniles must be observed.*
*Employment restrictions concerning pregnant and lactating women must be observed.*
***15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.*

* 
## SECTION 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.*

***Relevant phrases***
*H290 May be corrosive to metals.*
*H302 Harmful if swallowed.*
*H312 Harmful in contact with skin.*
*H314 Causes severe skin burns and eye damage.*
*H315 Causes skin irritation.*
*H318 Causes serious eye damage.*
*H319 Causes serious eye irritation.*
*H332 Harmful if inhaled.*
*H335 May cause respiratory irritation.*
*H400 Very toxic to aquatic life.*
*H411 Toxic to aquatic life with long lasting effects.*
*H412 Harmful to aquatic life with long lasting effects.*

| ***Classification according to Regulation (EC) No 1272/2008*** | |
|---|---|
| *Corrosive to metals* | *Bridging principles* |
| *Skin corrosion/irritation*<br>*Serious eye damage/irritation*<br>*Specific target organ toxicity (single exposure)*<br>*Hazardous to the aquatic environment - long-term (chronic) aquatic hazard* | *The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.* |

***Date of previous version:** 16.10.2023*
***Version number of previous version:** 4.01*
***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)*
*DGR: Przepisy dotyczące towarów niebezpiecznych - Dangerous Goods Regulations by IATA*
*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*
*NOEL = No Observed Effect Level*
*NOEC = No Observed Effect Concentration*
*LC = letal Concentration*
*EC50 = half maximal effective concentration*
*log POW = Octanol / water partition coefficient*
*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*
*ATE: acute toxicity estimate*
*ADR: Accord relatif au transport international 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*
*EINECS: European Inventory of Existing Commercial Chemical Substances*
*ELINCS: European List of Notified Chemical Substances*
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*
*DNEL: Derived No-Effect Level (UK REACH)*
*PNEC: Predicted No-Effect Concentration (UK REACH)*
*LC50: Lethal concentration, 50 percent*
*LD50: Lethal dose, 50 percent*
*IOELV = indicative occupational exposure limit values*
*Met. Corr.1: Corrosive to metals – Category 1*
*Acute Tox. 4: Acute toxicity – Category 4*
*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*
*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*

(Contd. on page 11)

(Contd. of page 10)

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*
*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*
*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*
*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*
*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*
**** Data compared to the previous version altered.***