

CONDENSER CLEANER READY MIX (5096 II RTU)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 9/1/2014
Revision date: 1/11/2021 Supersedes version of: 1/11/2021 Version: 7.1

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

1.1. Product identifier

Product form : Mixture
Product name : CONDENSER CLEANER READY MIX (5096 II RTU)
Product code : RUT056

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Scorpion Climate Ltd
Unit 3 Deanland Business Park
Deanland Raod
BN27 3RP Golden Cross
T +44 (0)1825 872726
sales@scorpionclimate.com

1.4. Emergency telephone number

Emergency number : +44 (0)1825 872726

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1, Sub-Category 1A H314
Serious eye damage/eye irritation, Category 1 H318
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

<tx:_GHS_PICTOS> (CLP) :



GHS05

Signal word (CLP) : Danger
Contains : Sodium hydroxide
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

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Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTER or doctor.
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a POISON CENTER or doctor.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------------|---|-----|---|
| Sodium hydroxide | (CAS-No.) 1310-73-2 (EC-No.) 215-185-5 | < 5 | Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 |
| ALKYL POLYGLYCOSIDE C8-10 | (CAS-No.) 68515-73-1 (EC-No.) 500-220-1 | < 5 | Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| 2-AMINOETHANOL | (CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8 | < 5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| SODIUM N-LAUROYLSACROSINATE | (CAS-No.) 137-16-6 (EC-No.) 205-281-5 | < 5 | Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|------------------|---|---|
| Sodium hydroxide | (CAS-No.) 1310-73-2 (EC-No.) 215-185-5 | (0.5 ≤C < 2) Skin Irrit. 2, H315 (0.5 ≤C < 2) Eye Irrit. 2, H319 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314 |
| 2-AMINOETHANOL | (CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8 | (5 ≤C < 100) STOT SE 3, H335 |

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a physician immediately. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Rinse mouth. Do not induce vomiting. Call a physician immediately. |

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

| | |
|-------------------------------------|---------------------------|
| Symptoms/effects after skin contact | : Burns. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : Burns. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |
|----------------------|---|

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| 2-AMINOETHANOL (141-43-5) | |
|---|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | 2-Aminoethanol |
| IOEL TWA | 2.5 mg/m ³ |
| IOEL TWA [ppm] | 1 ppm |
| IOEL STEL | 7.6 mg/m ³ |
| IOEL STEL [ppm] | 3 ppm |
| Notes | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| Albania - Occupational Exposure Limits | |
| Local name | Amino-2-etanol |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Notes | Lëkurë (tregon mundësinë e një marrjeje të rëndësishme nëpërmjet lëkurës) |
| Regulatory reference | VENDIM Nr. 522, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES "PËR MBROJTJEN E SIGURISË DHE SHËNDETIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME AGJENTËT KIMIKË NË PUNË" |
| Austria - Occupational Exposure Limits | |
| Local name | 2-Aminoethanol |
| MAK (OEL TWA) | 2.5 mg/m ³ |
| MAK (OEL TWA) [ppm] | 1 ppm |
| MAK (OEL STEL) | 7.6 mg/m ³ (4x 15(Miw) min) |
| MAK (OEL STEL) [ppm] | 3 ppm (4x 15(Miw) min) |
| Remark (AT) | Sh |
| Regulatory reference | BGBI. II Nr. 238/2018 |

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2-AMINOETHANOL (141-43-5)

Belgium - Occupational Exposure Limits

| | |
|----------------------|--|
| Local name | Ethanolamine # Ethanolamine |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Remark (BE) | D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht. |
| Regulatory reference | Koninklijk besluit/Arrêté royal 21/01/2020 |

Bulgaria - Occupational Exposure Limits

| | |
|----------------------|--|
| Local name | Етаноламин (2-Аминоетанол) |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Notes | Кожа (възможна е значителна резорбция чрез кожата); • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност) |
| Regulatory reference | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.5 от 17 Януари 2020 г.) |

Croatia - Occupational Exposure Limits

| | |
|-----------------------|---|
| Local name | 2-aminoetanol; etanolamin |
| GVI (OEL TWA) [1] | 2.5 mg/m ³ |
| GVI (OEL TWA) [2] | 1 ppm |
| KGVI (OEL STEL) | 7.6 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 3 ppm |
| Naznake (HR) | Direktiva: 2006/15/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315)) |
| Regulatory reference | Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018) |

Denmark - Occupational Exposure Limits

| | |
|----------------------|---|
| Local name | 2-Aminoethanol (Ethanolamin) |
| OEL TWA [1] | 2.5 mg/m ³ |
| OEL TWA [2] | 1 ppm |
| Anmærkninger (DK) | E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden) |
| Regulatory reference | BEK nr 1458 af 13/12/2019 |

Estonia - Occupational Exposure Limits

| | |
|------------|-----------------------|
| Local name | 2-aminoetanool |
| OEL TWA | 2.5 mg/m ³ |

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| 2-AMINOETHANOL (141-43-5) | |
|--|--|
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Remark (ET) | A (Naha kaudu kergesti imenduv aine) |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84 |
| France - Occupational Exposure Limits | |
| Local name | Ethanolamine (2-Aminoéthanol) |
| VME (OEL TWA) | 2.5 mg/m ³ |
| VME (OEL TWA) [ppm] | 1 ppm |
| VLE (OEL Ceiling/STEL) | 7.6 mg/m ³ |
| VLE (OEL Ceiling/STEL) [ppm] | 3 ppm |
| Note (FR) | Valeurs réglementaires contraignantes; risque de pénétration percutanée |
| Regulatory reference | Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Local name | 2-Amino-ethanol |
| AGW (OEL TWA) [1] | 0.5 mg/m ³ |
| AGW (OEL TWA) [2] | 0.2 ppm |
| Peak exposure limitation factor | 1(I) |
| Remark | DFG;EU;Y;Sh;H;11 |
| Regulatory reference | TRGS900 |
| Gibraltar - Occupational Exposure Limits | |
| Name of agent | 2-Aminoethanol |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Notation | Skin |
| Regulatory reference | Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181) |
| Greece - Occupational Exposure Limits | |
| Local name | Αιθανολαμίνη (2-αμινοαιθανόλη) |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Regulatory reference | Π.Δ. 162/2007 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| Hungary - Occupational Exposure Limits | |
| Local name | 2-AMINOETANOL |
| AK (OEL TWA) | 2.5 mg/m ³ |

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| 2-AMINOETHANOL (141-43-5) | |
|--|--|
| CK (OEL STEL) | 7.6 mg/m ³ |
| Megjegyzések (HU) | b (Bőrön át is felszívódik); EU2 (2006/15/EK irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik) |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| Ireland - Occupational Exposure Limits | |
| Local name | 2-Aminoethanol [Ethanolamine] |
| OEL TWA [1] | 2.5 mg/m ³ |
| OEL TWA [2] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Notes (IE) | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2020 |
| Italy - Occupational Exposure Limits | |
| Local name | 2-Amminoetanolo |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Notes | pelle |
| Regulatory reference | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i. |
| Latvia - Occupational Exposure Limits | |
| Local name | 2-Aminoetanols (monoetanolamīns) |
| OEL TWA | 0.5 mg/m ³ |
| OEL TWA [ppm] | 0.2 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Remark (LV) | Āda |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 |
| Lithuania - Occupational Exposure Limits | |
| Local name | 2-aminoetanolis (etanolaminas) |
| IPRV (OEL TWA) | 2.5 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 1 ppm |
| TPRV (OEL STEL) | 7.6 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 3 ppm |
| Remark (LT) | O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą) |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |
| Luxembourg - Occupational Exposure Limits | |
| Local name | 2-aminoéthanol |

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| 2-AMINOETHANOL (141-43-5) | |
|---|---|
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Regulatory reference | Mémorial A N° 684 de 2018 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail |
| Malta - Occupational Exposure Limits | |
| Local name | 2-Aminoethanol |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Remark (MT) | Skin # Ġilda |
| Regulatory reference | S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018) |
| Netherlands - Occupational Exposure Limits | |
| Local name | 2-Aminoethanol |
| MAC-TGG (OEL TWA) | 2.5 mg/m ³ |
| MAC-15 (OEL STEL) | 7.6 mg/m ³ |
| Remark (MAC) | H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen. |
| Regulatory reference | Arbeidsomstandighedenregeling 2020 |
| Poland - Occupational Exposure Limits | |
| Local name | 2-Aminoetanol |
| NDS (OEL TWA) | 2.5 mg/m ³ |
| NDSCh (OEL STEL) | 7.5 mg/m ³ |
| Remark (PL) | Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową). |
| Regulatory reference | Dz. U. 2018 poz. 1286 |
| Portugal - Occupational Exposure Limits | |
| Local name | Etanolamina (2-Aminoetanol) |
| OEL TWA [ppm] | 3 ppm |
| OEL STEL [ppm] | 6 ppm |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Romania - Occupational Exposure Limits | |
| Local name | 2-aminoetanol/Etanolamină |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |

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| 2-AMINOETHANOL (141-43-5) | |
|--|---|
| Regulatory reference | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 157/2020) |
| Serbia - Occupational Exposure Limits | |
| Local name | 2-аминоетанол; етаноламин |
| OEL TWA | 3 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 8 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Notes | EU** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2006/15/ЕЗ (друга листа); К – напомена да хемијска материја може штетно деловати на кожу |
| Regulatory reference | ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09 и 117/17) |
| Slovakia - Occupational Exposure Limits | |
| Local name | 2-Aminoetanol |
| NPHV (OEL TWA) [1] | 2.5 mg/m ³ |
| NPHV (OEL TWA) [2] | 1 ppm |
| NPHV (OEL STEL) | 7.6 mg/m ³ |
| NPHV (OEL STEL) [ppm] | 3 ppm |
| Upozornenie (SK) | K - znamená, že faktor môže byť ľahko absorbovaný kožou |
| Regulatory reference | Nariadenie vlády č. 33/2018 Z. z. |
| Slovenia - Occupational Exposure Limits | |
| Local name | 2-aminoetanol (etanolamin) |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Remark (SI) | K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU |
| Regulatory reference | Uradni list RS, št. 78/2019 z dne 20.12.2019 |
| Spain - Occupational Exposure Limits | |
| Local name | 2-Aminoetanol (Etanolamina) |
| VLA-ED (OEL TWA) [1] | 2.5 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 1 ppm |
| VLA-EC (OEL STEL) | 7.5 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 3 ppm |
| Notes | Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT |

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|--|---|
| Sweden - Occupational Exposure Limits | |
| Local name | Etanolamin |
| NGV (OEL TWA) | 2.5 mg/m ³ |
| NGV (OEL TWA) [ppm] | 1 ppm |
| KTV (OEL STEL) | 7.5 mg/m ³ |
| KTV (OEL STEL) [ppm] | 3 ppm |
| Anmärkning (SE) | H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga) |
| Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-Aminoethanol |
| WEL TWA [1] | 2.5 mg/m ³ |
| WEL TWA [2] | 1 ppm |
| WEL STEL | 7.6 mg/m ³ |
| WEL STEL [ppm] | 3 ppm |
| Remark (WEL) | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Iceland - Occupational Exposure Limits | |
| Local name | Etanólamín (2-aminóetanól) |
| OEL TWA | 2.5 mg/m ³ |
| OEL TWA [ppm] | 1 ppm |
| OEL STEL | 7.6 mg/m ³ |
| OEL STEL [ppm] | 3 ppm |
| Notes (IS) | H (efnið getur auðveldlega borist inn í líkamann gegnum húð) |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |
| Norway - Occupational Exposure Limits | |
| Local name | 2-aminoethanol (Etanolamin) |
| Grenseverdi (OEL TWA) [1] | 2.5 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 1 ppm |
| Merknader (NO) | H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet. |
| Regulatory reference | FOR-2020-04-06-695 |
| Switzerland - Occupational Exposure Limits | |
| Local name | 2-Aminoéthanol / 2-Aminoethanol [Ethanolamin] |
| MAK (OEL TWA) [1] | 5 mg/m ³ |
| MAK (OEL TWA) [2] | 2 ppm |
| KZGW (OEL STEL) | 10 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 4 ppm |
| Critical toxicity | Peau, Fatigue, Yeux / Haut, Fatigue, Auge |

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2-AMINOETHANOL (141-43-5)

| | |
|----------------------|-------------------------|
| Notation | S / S |
| Remark | NIOSH |
| Regulatory reference | www.suva.ch, 01.01.2020 |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Odour | : Barely perceptible odour. |
| Odour threshold | : No data available |
| pH | : 13.8 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.04 |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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ALKYL POLYGLYCOSIDE C8-10 (68515-73-1)

| | |
|--------------------|---|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes severe skin burns. pH: 13.8 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 13.8 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

2-AMINOETHANOL (141-43-5)

| | |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | 300 mg/kg bodyweight Animal: rat, Guideline: other:OECD Guideline 416 (Two-generation reproduction toxicity study) |
|----------------------------|--|

ALKYL POLYGLYCOSIDE C8-10 (68515-73-1)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | 100 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : Before neutralisation, the product may represent a danger to aquatic organisms. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |
| Not rapidly degradable | |

Sodium hydroxide (1310-73-2)

| | |
|----------------------|--|
| EC50 - Crustacea [1] | 40.4 mg/l Test organisms (species): Ceriodaphnia sp. |
|----------------------|--|

2-AMINOETHANOL (141-43-5)

| | |
|----------------------|--|
| LC50 - Fish [1] | 349 mg/l Test organisms (species): Cyprinus carpio |
| EC50 - Crustacea [1] | 65 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 2.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

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| | |
|----------------------|--|
| EC50 72h - Algae [2] | 2.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic) | 0.85 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 1.24 mg/l Test organisms (species): Oryzias latipes Duration: '41 d' |

| ALKYL POLYGLYCOSIDE C8-10 (68515-73-1) | |
|--|---|
| LC50 - Fish [1] | 100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 - Fish [2] | 170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2] | 37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number | | | | |
| UN 3266 | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Transport document description | | | | |
| UN 3266, III | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

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14.4. Packing group

| | | | | |
|-----|----------------|----------------|----------------|----------------|
| III | Not applicable | Not applicable | Not applicable | Not applicable |
|-----|----------------|----------------|----------------|----------------|

14.5. Environmental hazards

| | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|
| Dangerous for the environment : No | Not applicable | Not applicable | Not applicable | Not applicable |
|------------------------------------|----------------|----------------|----------------|----------------|

No supplementary information available

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

France

Occupational diseases

| Code | Description |
|-----------|--|
| RG 49 | Skin disorders caused by aliphatic, alicyclic amines or ethanolamines |
| RG 49 BIS | Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine |

Germany

Water hazard class (WGK)

: WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

SZW-lijst van mutagene stoffen

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

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Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |

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| | |
|---------|--|
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 1 (Inhalation) | Acute toxicity (inhal.), Category 1 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Met. Corr. 1 | Corrosive to metals, Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| 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. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.