

# AXCALIBER® BLADE AND BIT CLEANER

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 1/17/2018 Revision date: 2/3/2022 Supersedes version of: 2/3/2022 Version: 3.4

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : AXCALIBER® BLADE AND BIT CLEANER  
Product code : RUT048

#### 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

Axminster Tools & Machinery,  
Unit 10, Weycroft Avenue  
EX13 7AG Axminster – Devon  
T 0800 371822  
[procurement@axminstertools.com](mailto:procurement@axminstertools.com)

#### 1.4. Emergency telephone number

Emergency number : 0800 371822

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

Signal word (CLP) : Danger  
Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.  
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

#### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

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### 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] |
|---------------------------|----------------------------------------------------------------------|------------|-----------------------------------------------------------------|
| ETHANOL                   | CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>EC Index-No.: 603-002-00-5  | ≥ 95       | Flam. Liq. 2, H225                                              |
| 2-(2-BUTOXYETHOXY)ETHANOL | CAS-No.: 112-34-5<br>EC-No.: 203-961-6<br>EC Index-No.: 603-096-00-8 | ≥ 5 – < 15 | Eye Irrit. 2, H319                                              |

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| First-aid measures general            | : Get medical advice/attention if you feel unwell.                              |
| 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. |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                        |
| First-aid measures after ingestion    | : Rinse mouth. Call a poison center or a doctor if you feel unwell.             |

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

No additional information available

#### 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

|                                                  |                                       |
|--------------------------------------------------|---------------------------------------|
| Fire hazard                                      | : Highly flammable liquid and vapour. |
| Explosion hazard                                 | : No direct explosion hazard.         |
| 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

General measures : Do not handle until all safety precautions have been read and understood.

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### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

### 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

- For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Absorb spillage to prevent material damage. Notify authorities if product enters sewers or public waters.  
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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment.  
Hygiene measures : 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

- Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

### 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

| ETHANOL (64-17-5)                      |                                         |
|----------------------------------------|-----------------------------------------|
| Austria - Occupational Exposure Limits |                                         |
| Local name                             | Ethanol                                 |
| MAK (OEL TWA)                          | 1900 mg/m <sup>3</sup>                  |
| MAK (OEL TWA) [ppm]                    | 1000 ppm                                |
| MAK (OEL STEL)                         | 3800 mg/m <sup>3</sup> (3x 60(Mow) min) |
| MAK (OEL STEL) [ppm]                   | 2000 ppm (3x 60(Mow) min)               |
| Regulatory reference                   | BGBI. II Nr. 238/2018                   |

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| <b>ETHANOL (64-17-5)</b>                             |                                                                                                                                                                                   |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Belgium - Occupational Exposure Limits</b>        |                                                                                                                                                                                   |
| Local name                                           | Alcool éthylique # Ethanol                                                                                                                                                        |
| OEL TWA                                              | 1907 mg/m <sup>3</sup>                                                                                                                                                            |
| OEL TWA [ppm]                                        | 1000 ppm                                                                                                                                                                          |
| Regulatory reference                                 | Koninklijk besluit/Arrêté royal 19/11/2020                                                                                                                                        |
| <b>Bulgaria - Occupational Exposure Limits</b>       |                                                                                                                                                                                   |
| Local name                                           | Етилов алкохол                                                                                                                                                                    |
| OEL TWA                                              | 1000 mg/m <sup>3</sup>                                                                                                                                                            |
| 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. 47 от 2021 г., в сила от 04.06.2021 г.) |
| <b>Croatia - Occupational Exposure Limits</b>        |                                                                                                                                                                                   |
| Local name                                           | Etanol; etil-alkohol                                                                                                                                                              |
| GVI (OEL TWA) [1]                                    | 1900 mg/m <sup>3</sup>                                                                                                                                                            |
| GVI (OEL TWA) [2]                                    | 1000 ppm                                                                                                                                                                          |
| Regulatory reference                                 | Pravilnik o izmjenama i dopunama Pravilnika o граниčnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim граниčnim vrijednostima (NN 1/2021)                      |
| <b>Czech Republic - Occupational Exposure Limits</b> |                                                                                                                                                                                   |
| Local name                                           | Ethanol (Ethylalkohol)                                                                                                                                                            |
| PEL (OEL TWA)                                        | 1000 mg/m <sup>3</sup>                                                                                                                                                            |
| PEL (OEL TWA) [ppm]                                  | 522 ppm                                                                                                                                                                           |
| NPK-P (OEL C)                                        | 3000 mg/m <sup>3</sup>                                                                                                                                                            |
| NPK-P (OEL C) [ppm]                                  | 1566 ppm                                                                                                                                                                          |
| Regulatory reference                                 | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                                                                                                             |
| <b>Denmark - Occupational Exposure Limits</b>        |                                                                                                                                                                                   |
| Local name                                           | Ethanol (Ethylalkohol)                                                                                                                                                            |
| OEL TWA [1]                                          | 1900 mg/m <sup>3</sup>                                                                                                                                                            |
| OEL TWA [2]                                          | 1000 ppm                                                                                                                                                                          |
| Regulatory reference                                 | BEK nr 1426 af 28. juni 2021                                                                                                                                                      |
| <b>Estonia - Occupational Exposure Limits</b>        |                                                                                                                                                                                   |
| Local name                                           | Etanool (etüülalkohol)                                                                                                                                                            |
| OEL TWA                                              | 1000 mg/m <sup>3</sup>                                                                                                                                                            |
| OEL TWA [ppm]                                        | 500 ppm                                                                                                                                                                           |
| OEL STEL                                             | 1900 mg/m <sup>3</sup>                                                                                                                                                            |
| OEL STEL [ppm]                                       | 1000 ppm                                                                                                                                                                          |
| 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                                                 |
| <b>France - Occupational Exposure Limits</b>         |                                                                                                                                                                                   |
| Local name                                           | Alcool éthylique                                                                                                                                                                  |
| VME (OEL TWA)                                        | 1900 mg/m <sup>3</sup>                                                                                                                                                            |

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| <b>ETHANOL (64-17-5)</b>                                 |                                                                                                                                                                                                                                                            |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VME (OEL TWA) [ppm]                                      | 1000 ppm                                                                                                                                                                                                                                                   |
| VLE (OEL C/STEL)                                         | 9500 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
| VLE (OEL C/STEL) [ppm]                                   | 5000 ppm                                                                                                                                                                                                                                                   |
| Remark                                                   | Valeurs recommandées/admises                                                                                                                                                                                                                               |
| Regulatory reference                                     | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)                                                                                                                                                                                               |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                                                                                                                                                                                                                                                            |
| AGW (OEL TWA) [1]                                        | 380 mg/m <sup>3</sup>                                                                                                                                                                                                                                      |
| AGW (OEL TWA) [2]                                        | 200 ppm                                                                                                                                                                                                                                                    |
| Peak exposure limitation factor                          | 2(II)                                                                                                                                                                                                                                                      |
| Remark                                                   | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference                                     | TRGS900                                                                                                                                                                                                                                                    |
| <b>Greece - Occupational Exposure Limits</b>             |                                                                                                                                                                                                                                                            |
| Local name                                               | Αιθνόλη                                                                                                                                                                                                                                                    |
| OEL TWA                                                  | 1900 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
| OEL TWA [ppm]                                            | 1000 ppm                                                                                                                                                                                                                                                   |
| Regulatory reference                                     | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους                                                                                                                    |
| <b>Hungary - Occupational Exposure Limits</b>            |                                                                                                                                                                                                                                                            |
| Local name                                               | ETIL-ALKOHOL                                                                                                                                                                                                                                               |
| AK (OEL TWA)                                             | 1900 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
| CK (OEL STEL)                                            | 3800 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
| Remark                                                   | N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)                                                                                                                                                                  |
| Regulatory reference                                     | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                                                                           |
| <b>Ireland - Occupational Exposure Limits</b>            |                                                                                                                                                                                                                                                            |
| Local name                                               | Ethanol [Ethyl alcohol]                                                                                                                                                                                                                                    |
| OEL STEL [ppm]                                           | 1000 ppm                                                                                                                                                                                                                                                   |
| Regulatory reference                                     | Chemical Agents Code of Practice 2021                                                                                                                                                                                                                      |
| <b>Latvia - Occupational Exposure Limits</b>             |                                                                                                                                                                                                                                                            |
| Local name                                               | Etilspirts (etanols)                                                                                                                                                                                                                                       |
| OEL TWA                                                  | 1000 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
| Regulatory reference                                     | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325                                                                                                                                                                                                 |
| <b>Lithuania - Occupational Exposure Limits</b>          |                                                                                                                                                                                                                                                            |
| Local name                                               | Etanolis (etilo alkoholis)                                                                                                                                                                                                                                 |
| IPRV (OEL TWA)                                           | 1000 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
| IPRV (OEL TWA) [ppm]                                     | 500 ppm                                                                                                                                                                                                                                                    |
| TPRV (OEL STEL)                                          | 1900 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
| TPRV (OEL STEL) [ppm]                                    | 1000 ppm                                                                                                                                                                                                                                                   |

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| ETHANOL (64-17-5)                                 |                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulatory reference                              | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)                                                                                                                                                                                                                                                                                                           |
| <b>Netherlands - Occupational Exposure Limits</b> |                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                        | Ethanol                                                                                                                                                                                                                                                                                                                                                                     |
| TGG-8u (OEL TWA)                                  | 260 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                       |
| TGG-15min (OEL STEL)                              | 1900 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                      |
| Remark                                            | Kankerverwekkende stof. 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 2021                                                                                                                                                                                                                                                                                                                                          |
| <b>Poland - Occupational Exposure Limits</b>      |                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                        | Etanol (alkohol etylowy)                                                                                                                                                                                                                                                                                                                                                    |
| NDS (OEL TWA)                                     | 1900 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                      |
| Regulatory reference                              | Dz. U. 2018 poz. 1286                                                                                                                                                                                                                                                                                                                                                       |
| <b>Portugal - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                        | Etanol (Álcool etílico)                                                                                                                                                                                                                                                                                                                                                     |
| OEL STEL [ppm]                                    | 1000 ppm                                                                                                                                                                                                                                                                                                                                                                    |
| Remark                                            | A3 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)                                                                                                                                                                                                                                                                        |
| Regulatory reference                              | Norma Portuguesa NP 1796:2014                                                                                                                                                                                                                                                                                                                                               |
| <b>Romania - Occupational Exposure Limits</b>     |                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                        | Alcool etilic/Etanol                                                                                                                                                                                                                                                                                                                                                        |
| OEL TWA                                           | 1900 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                      |
| OEL TWA [ppm]                                     | 1000 ppm                                                                                                                                                                                                                                                                                                                                                                    |
| OEL STEL                                          | 9500 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                      |
| OEL STEL [ppm]                                    | 5000 ppm                                                                                                                                                                                                                                                                                                                                                                    |
| Regulatory reference                              | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)                                                                                                                                                                                                                                                                                                                 |
| <b>Slovakia - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                        | Etylalkohol (etanol)                                                                                                                                                                                                                                                                                                                                                        |
| NPHV (OEL TWA) [1]                                | 960 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                       |
| NPHV (OEL TWA) [2]                                | 500 ppm                                                                                                                                                                                                                                                                                                                                                                     |
| NPHV (OEL STEL)                                   | 1920 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                      |
| NPHV (OEL STEL) [ppm]                             | 1000 ppm                                                                                                                                                                                                                                                                                                                                                                    |
| Regulatory reference                              | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)                                                                                                                                                                                                                                                                                                                         |
| <b>Slovenia - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                        | etanol (etilalkohol)                                                                                                                                                                                                                                                                                                                                                        |
| OEL TWA                                           | 960 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                       |
| OEL TWA [ppm]                                     | 500 ppm                                                                                                                                                                                                                                                                                                                                                                     |
| OEL STEL                                          | 1920 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                      |
| OEL STEL [ppm]                                    | 1000 ppm                                                                                                                                                                                                                                                                                                                                                                    |

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| <b>ETHANOL (64-17-5)</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remark                                               | Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Regulatory reference                                 | Uradni list RS, št. 72/2021 z dne 11.5.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Spain - Occupational Exposure Limits</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Local name                                           | Etanol (Alcohol etílico)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VLA-EC (OEL STEL)                                    | 1910 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| VLA-EC (OEL STEL) [ppm]                              | 1000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Remark                                               | s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ). |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sweden - Occupational Exposure Limits</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Local name                                           | Etanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NGV (OEL TWA)                                        | 1000 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NGV (OEL TWA) [ppm]                                  | 500 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| KTV (OEL STEL)                                       | 1900 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| KTV (OEL STEL) [ppm]                                 | 1000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Remark                                               | V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Regulatory reference                                 | Hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>United Kingdom - Occupational Exposure Limits</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Local name                                           | Ethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| WEL TWA (OEL TWA) [1]                                | 1920 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| WEL TWA (OEL TWA) [2]                                | 1000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Iceland - Occupational Exposure Limits</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Local name                                           | Etanól (etylalkóhól)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| OEL TWA                                              | 1900 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| OEL TWA [ppm]                                        | 1000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Regulatory reference                                 | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Norway - Occupational Exposure Limits</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Local name                                           | Etanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Grenseverdi (OEL TWA) [1]                            | 950 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Grenseverdi (OEL TWA) [2]                            | 500 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Regulatory reference                                 | FOR-2021-06-28-2248                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Switzerland - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Local name                                           | Ethanol / Ethanol [Ethylalkohol]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MAK (OEL TWA) [1]                                    | 960 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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| ETHANOL (64-17-5)     |                                   |
|-----------------------|-----------------------------------|
| MAK (OEL TWA) [2]     | 500 ppm                           |
| KZGW (OEL STEL)       | 1920 mg/m <sup>3</sup>            |
| KZGW (OEL STEL) [ppm] | 1000 ppm                          |
| Critical toxicity     | Formel / Formal                   |
| Notation              | SS <sub>c</sub> / SS <sub>c</sub> |
| Remark                | INRS, NIOSH                       |
| Regulatory reference  | www.suva.ch, 01.01.2021           |

### 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                                          | : Orange.           |
| Odour                                           | : No data available |
| Odour threshold                                 | : No data available |
| pH                                              | : No data available |
| Relative evaporation rate (butylacetate=1)      | : No data available |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : No data available |
| Boiling point                                   | : > 35 °C           |
| Flash point                                     | : < 23 °C           |
| 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                                | : 0.8               |
| 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

Highly flammable liquid and vapour.

#### 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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 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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| ETHANOL (64-17-5)                 |                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                     | 15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560 |
| LD50 oral                         | 8300 mg/kg bodyweight Animal: mouse                                                                                                |
| Skin corrosion/irritation         | : Not classified                                                                                                                   |
| Serious eye damage/irritation     | : Not classified                                                                                                                   |
| 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                                                                                                                   |

| ETHANOL (64-17-5)                                |                                                                                                                            |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NOAEL (subchronic, oral, animal/male, 90 days)   | < 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)   |
| NOAEL (subchronic, oral, animal/female, 90 days) | > 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| Aspiration hazard                                | : Not classified                                                                                                           |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                        |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                        |
| Not rapidly degradable                                    |                                                                                                                         |

| ETHANOL (64-17-5) |                                                                  |
|-------------------|------------------------------------------------------------------|
| LC50 - Fish [1]   | 14.2 g/l Test organisms (species): Pimephales promelas           |
| NOEC (chronic)    | 9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d' |

### 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

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapours may accumulate in the container.

### SECTION 14: Transport information

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

| ADR                                                                                 | IMDG                                                                                | IATA                                                                                | ADN                                                                                   | RID                                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                                              |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| UN 1170                                                                             | UN 1170                                                                             | UN 1170                                                                             | UN 1170                                                                               | UN 1170                                                                               |
| <b>14.2. UN proper shipping name</b>                                                |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                                           | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                                           | Ethanol solution                                                                    | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                                             | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                                             |
| <b>Transport document description</b>                                               |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II, (D/E)                     | UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II                            | UN 1170 Ethanol solution, 3, II                                                     | UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II                              | UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II                              |
| <b>14.3. Transport hazard class(es)</b>                                             |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 3                                                                                   | 3                                                                                   | 3                                                                                   | 3                                                                                     | 3                                                                                     |
|  |  |  |  |  |
| <b>14.4. Packing group</b>                                                          |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| II                                                                                  | II                                                                                  | II                                                                                  | II                                                                                    | II                                                                                    |
| <b>14.5. Environmental hazards</b>                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Dangerous for the environment: No                                                   | Dangerous for the environment: No<br>Marine pollutant: No                           | Dangerous for the environment: No                                                   | Dangerous for the environment: No                                                     | Dangerous for the environment: No                                                     |
| No supplementary information available                                              |                                                                                     |                                                                                     |                                                                                       |                                                                                       |

#### 14.6. Special precautions for user


##### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 144, 601  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : LGBF  
Vehicle for tank carriage : FL  
Transport category (ADR) : 2  
Special provisions for carriage - Operation (ADR) : S2, S20  
Hazard identification number (Kemler No.) : 33

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Orange plates : 

Tunnel restriction code (ADR) : D/E  
EAC code : •2Y

### Transport by sea

Special provisions (IMDG) : 144  
Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : A  
Properties and observations (IMDG) : Colourless, volatile liquids. Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19% Miscible with water.

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A58, A180  
ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 144, 601  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 144, 601  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

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

Not applicable

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### 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

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

##### 15.1.2. National regulations

| France                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational diseases |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Code                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RG 84                 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

##### Germany

Water hazard class (WGK) : WGK 1, Slightly 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 : ETHANOL is listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : ETHANOL is listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : ETHANOL is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : ETHANOL is listed

##### Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H225>; Emergency management guidelines for the storage of flammable liquids must be followed

##### Switzerland

Storage class (LK) : LK 3 - Flammable liquids

#### 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             |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| 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                                                   |
| 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: |                                               |
|-------------------------------------|-----------------------------------------------|
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2                        | Flammable liquids, Category 2                 |
| H225                                | Highly flammable liquid and vapour.           |
| H319                                | Causes serious eye irritation.                |

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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.