

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SDS Reference Number: BPB615

Issue date: 22/09/2015 Revision date: 05/01/2025 Supersedes version of: 07/10/2021 Version: 1.4

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

1.1. Product identifier

Product form : Mixture
Product name : Sodium Acetate Buffer Solution pH 4.5 (British Pharmacopoeia)
Product code : BPB615

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

Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Laboratory chemical
Function or use category : Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Spectracer UK Ltd.

20 Seymour Mews,
London,
W1H 6BQ,
United Kingdom.

Tel: +44 (0) 207 193 9114

Fax: +44 (0) 203 432 4686

Email: contact@spectracer.com

Web: www.spectracer.com

1.4. Emergency telephone number

| Country/Area | Organisation | Emergency number |
|----------------|---|--|
| Ireland | National Poisons Information Centre. Beaumont Hospital. Beaumont Hospital Beaumont Road 9 Dublin. | : +353 1 8379964 |
| Malta | Medicines & Poisons Info Office. Mater Dei Hospital. Msida MSD 2090 Msida. | 112 +356 2545 6508 |
| United Kingdom | National Poisons Information Service (NHS Direct). http://www.npis.org . | 111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids Not classified

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

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

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2.3. Other hazards

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

| Component | |
|---|--|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | sodium acetate (127-09-3), acetic acid (64-19-7) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | sodium acetate (127-09-3), acetic acid (64-19-7) |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|--------|---|
| acetic acid substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, PL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6 REACH-no: 01-2119475328-30-XXXX | 5 – 10 | Flam. Liq. 3, H226 Skin Corr. 1A, H314 |
| sodium acetate substance with national workplace exposure limit(s) (BE, FR, GB) | CAS-No.: 127-09-3 EC-No.: 204-823-8 | 5 – 10 | Not classified |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|-------------|--|--|
| acetic acid | CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6 REACH-no: 01-2119475328-30-XXXX | (10 ≤ C < 25) Eye Irrit. 2; H319 (10 ≤ C < 25) Skin Irrit. 2; H315 (25 ≤ C < 90) Skin Corr. 1B; H314 (90 ≤ C < 100) Skin Corr. 1A; H314 |

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 | : If you feel unwell, seek medical advice. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |
| Self protection of the first-aiders | : First aid workers will be equipped with suitable personal protective equipment. |

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

| | |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation | : None under normal conditions. |
| Symptoms/effects after skin contact | : None under normal conditions. |

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Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.

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.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
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 : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area.

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".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

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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 : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep cool. Protect from sunlight.
Packaging materials : Always store product in container of same material as original container.

Germany

Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids

| | | | | | |
|---------------------|----------|---------|----------|----------|-----------|
| Joint storage table | LGK 1 | LGK 2A | LGK 2B | LGK 3 | LGK 4.1A |
| | LGK 4.1B | LGK 4.2 | LGK 4.3 | LGK 5.1A | LGK 5.1B |
| | LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C |
| | LGK 6.1D | LGK 6.2 | LGK 7 | LGK 8A | LGK 8B |
| | LGK 10 | LGK 11 | LGK 12 | LGK 13 | LGK 10-13 |

Joint storage not permitted for : LGK 1, LGK 6.2, LGK 7
Joint storage with restrictions permitted for : LGK 4.1A, LGK 4.3, LGK 5.1C
Joint storage permitted for : LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

| sodium acetate (127-09-3) | |
|--|---|
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 3 mg/m ³ (Particules non classifiées autrement (fraction alvéolaire); Belgium; Time-weighted average exposure limit 8 h; Particules non classifiées autrement (fraction inhalable); 10 mg/m ³ ; Belgium; Time-weighted average exposure limit 8 h) |
| France - Occupational Exposure Limits | |
| VLEP 8h (OEL TWA) | 10 mg/m ³ (Poussières réputées sans effet spécifique; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante; Poussières réputées sans effet spécifique, fraction; 5 mg/m ³ ; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 4 mg/m ³ Inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Respirable dust; 10 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| WEL STEL (OEL STEL)* | 12 mg/m ³ |

*STEL value is calculated based on the TWA limit

| acetic acid (64-19-7) | |
|---|--------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Acetic acid |
| IOEL TWA | 25 mg/m ³ 10 ppm |

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| acetic acid (64-19-7) | |
|---|---|
| IOEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 |
| Albania - Occupational Exposure Limits | |
| Local name | Acid acetik |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| Regulatory reference | VENDIM Nr. 522, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES "PËR MBROJTJEN E SIGURISË DHE SHËNETIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME AGJENTËT KIMIKË NË PUNË" |
| Austria - Occupational Exposure Limits | |
| Local name | Essigsäure |
| MAK (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| MAK (OEL STEL) | 50 mg/m ³ (8x 5(Mow) min) |
| | 20 ppm (8x 5(Mow) min) |
| Regulatory reference | BGBI. II Nr. 330/2024 |
| Belgium - Occupational Exposure Limits | |
| Local name | Acide acétique # Azijnzuur |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 38 mg/m ³ |
| | 15 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| Bulgaria - Occupational Exposure Limits | |
| Local name | Оцетна киселина |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Remark | • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност) |
| Regulatory reference | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.) |
| Croatia - Occupational Exposure Limits | |
| Local name | Octena kiseline |
| GVI (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| KGV I (OEL STEL) | 50 mg/m ³ |
| | 20 ppm |

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| acetic acid (64-19-7) | |
|---|--|
| Remark | Direktiva: 2017/164/EU |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023) |
| Cyprus - Occupational Exposure Limits | |
| Local name | Οξικό οξύ |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | Κανονισμοί του 2019 (Κ.Δ.Π. 16/2019) |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Kyselina octová (Kyselina ethanová) |
| PEL (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| NPK-P (OEL C) | 50 mg/m ³ |
| | 20 ppm |
| Remark | I - dráždí sliznice (oči, dýchací cesty), resp. kůže. |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.) |
| Denmark - Occupational Exposure Limits | |
| Local name | Eddikesyre (Ethansyre) |
| 8-timers grænseværdi (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| Korttidsgrænseværdi (OEL STEL) | 50 mg/m ³ |
| | 20 ppm |
| Remark | E (betyder, at stoffet har en EU-grænseværdi) |
| Regulatory reference | BEK nr 1619 af 19/12/2024 |
| Estonia - Occupational Exposure Limits | |
| Local name | Etaanhape (äädikhape) |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 25 mg/m ³ |
| | 10 ppm |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 02.04.2024, 13) |
| Finland - Occupational Exposure Limits | |
| Local name | Etikkahappo |
| HTP (OEL TWA) | 13 mg/m ³ |
| | 5 ppm |
| HTP (OEL STEL) | 25 mg/m ³ |
| | 10 ppm |

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| acetic acid (64-19-7) | |
|--|--|
| Regulatory reference | HTP-ARVOT 2025 (Sosiaali- ja terveystieteiden ministeriö) |
| France - Occupational Exposure Limits | |
| Local name | Acide acétique |
| VLEP 8h (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| VLEP CT (OEL STEL) | 50 mg/m ³ |
| | 20 ppm |
| Remark | Valeurs réglementaires indicatives |
| Regulatory reference | Arrêté du 30 juin 2004 modifié (réf.: INRS ED 6443, 2022; Outil65; Arrête du 27 septembre 2019) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Local name | Essigsäure |
| AGW (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| Peak exposure limitation factor | 2(I) |
| Remark | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference | TRGS900 |
| Gibraltar - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181) |
| Greece - Occupational Exposure Limits | |
| Local name | Οξικό οξύ |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 37 mg/m ³ |
| | 15 ppm |
| Regulatory reference | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| Hungary - Occupational Exposure Limits | |
| Local name | ECETSAV |
| AK (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| CK (OEL STEL) | 50 mg/m ³ |

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| acetic acid (64-19-7) | |
|---|--|
| | 20 ppm |
| Remark | m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat); EU4 (2017/164 EU irányelvben közölt érték); 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 |
| Ireland - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2024 |
| Italy - Occupational Exposure Limits | |
| Local name | Acido acetico |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i. (D.Lgs. 4 settembre 2024, n. 135) |
| Latvia - Occupational Exposure Limits | |
| Local name | Etiķskābe (etānskābe) |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191). |
| Lithuania - Occupational Exposure Limits | |
| Local name | Acto rūgštis |
| IPRV (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| TPRV (OEL STEL) | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |
| Luxembourg - Occupational Exposure Limits | |
| Local name | Acide acétique |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |

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| acetic acid (64-19-7) | |
|---|---|
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail |
| Malta - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | S.L. 424.24 - Chemical Agents at Work Regulations (L.N. 356 of 2021) # L.S. 424.24 - Regolamenti dwar Aġenti Kimiċi fuq il-Post tax-Xogħol (A.L. 356 tal-2021) |
| Poland - Occupational Exposure Limits | |
| Local name | Kwas octowy |
| NDS (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| NDSCh (OEL STEL) | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | Dz. U. 2024 poz. 1017 wraz z późn. zm. |
| Portugal - Occupational Exposure Limits | |
| Local name | Ácido acético |
| OEL TWA | 10 ppm |
| OEL STEL | 15 ppm |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Romania - Occupational Exposure Limits | |
| Local name | Acid acetic |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 179/2024) |
| Serbia - Occupational Exposure Limits | |
| Local name | сирћетна киселина |
| OEL TWA | 25 mg/m ³ |
| | 20 mg/m ³ |
| | 50 mg/m ³ |
| | 10 ppm |
| Remark | ЕУ**** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2017/164/ЕУ (четврта листа) |

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| acetic acid (64-19-7) | |
|--|--|
| Regulatory reference | ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21) |
| Slovakia - Occupational Exposure Limits | |
| Local name | Kyselina octová (kyselina etánová) |
| NPHV (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| NPHV (OEL STEL) | 50 mg/m ³ |
| | 20 ppm |
| Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.) |
| Slovenia - Occupational Exposure Limits | |
| Local name | očetna kislina |
| OEL TWA | 25 mg/m ³ |
| | 10 ppm |
| OEL STEL | 50 mg/m ³ |
| | 20 ppm |
| Remark | Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU |
| Regulatory reference | Uradni list RS, št. 26/2025 z dne 18.4.2025 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu |
| Spain - Occupational Exposure Limits | |
| Local name | Ácido acético |
| VLA-ED (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| VLA-EC (OEL STEL) | 50 mg/m ³ |
| | 20 ppm |
| Remark | VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT |
| Sweden - Occupational Exposure Limits | |
| Local name | Ättiksyra |
| NGV (OEL TWA) | 13 mg/m ³ |
| | 5 ppm |
| KGV (OEL STEL) | 25 mg/m ³ |
| | 10 ppm |
| Regulatory reference | Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Acetic acid |
| WEL TWA (OEL TWA) | 25 mg/m ³ |
| | 10 ppm |
| WEL STEL (OEL STEL) | 50 mg/m ³ |

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| acetic acid (64-19-7) | |
|--|--|
| | 20 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Iceland - Occupational Exposure Limits | |
| Local name | Ediksýra |
| OEL TWA | 25 mg/m ³ 10 ppm |
| OEL STEL | 50 mg/m ³ 20 ppm |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 1069/2018) |
| Norway - Occupational Exposure Limits | |
| Local name | Eddiksyre |
| Grenseverdi (OEL TWA) | 25 mg/m ³ 10 ppm |
| Korttidsverdi (OEL STEL) | 50 mg/m ³ 20 ppm |
| Remark | A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt; E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet. |
| Regulatory reference | FOR-2024-04-05-581 |
| North Macedonia - Occupational Exposure Limits | |
| Local name | Оцетна киселина |
| OEL TWA | 25 mg/m ³ 10 ppm |
| Remark | (EU) European Union – гранична вредност, определена на ниво на Европската унија |
| Regulatory reference | Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10) |
| Switzerland - Occupational Exposure Limits | |
| Local name | Acide acétique / Essigsäure |
| MAK (OEL TWA) | 25 mg/m ³ 10 ppm |
| KZGW (OEL STEL) | 50 mg/m ³ 20 ppm |
| Notation | SS _c / SS _c |
| Remark | NIOSH, OSHA |
| Regulatory reference | www.suva.ch, 18.06.2025 |
| USA - ACGIH® - Threshold Limit Values | |
| Local name | Acetic acid |
| ACGIH® TLV® TWA | 25 mg/m ³ 10 ppm |

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| acetic acid (64-19-7) | |
|-----------------------|--|
| ACGIH® TLV® STEL | 37 mg/m ³ |
| | 15 ppm |
| Remark (ACGIH®) | TLV® Basis: Sensory irr; Burns (chemical); Pulm func |
| Regulatory reference | ACGIH 2025 |

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|------------------|
| Physical state | : Liquid |
| Colour | : Not available |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Non flammable |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 100 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : 4.5 |

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| | |
|---|------------------------|
| Viscosity, kinematic | : Not available |
| Solubility | : Miscible with water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : ≈ 1.01 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

| sodium acetate (127-09-3) | |
|---------------------------|--------------------------|
| LD50 oral rat | 5200 mg/kg |
| LD50 dermal rabbit | > 20000 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 5.6 mg/L air |

| acetic acid (64-19-7) | |
|---------------------------|-----------------------------|
| LD50 oral rat | 3310 mg/kg bodyweight |
| Skin corrosion/irritation | : Not classified pH: 4.5 |

| sodium acetate (127-09-3) | |
|---------------------------|-------------|
| pH | 8.9 (0.8 %) |

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| acetic acid (64-19-7) | |
|-----------------------|-----|
| pH | 2.4 |

Serious eye damage/irritation : Not classified
pH: 4.5

| sodium acetate (127-09-3) | |
|---------------------------|-------------|
| pH | 8.9 (0.8 %) |

| acetic acid (64-19-7) | |
|-----------------------|-----|
| pH | 2.4 |

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

| sodium acetate (127-09-3) | |
|---------------------------|-----------------------------|
| NOAEL (animal/female, F1) | ≥ 2500 mg/kg bodyweight rat |

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

| acetic acid (64-19-7) | |
|----------------------------|----------------------|
| NOAEL (oral, rat, 90 days) | 290 mg/kg bodyweight |

Aspiration hazard : Not classified

| acetic acid (64-19-7) | |
|-----------------------|-----------------------------|
| Viscosity, kinematic | 1015.385 mm ² /s |

11.2. Information on other hazards

No additional information available

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

| sodium acetate (127-09-3) | |
|---------------------------|--|
| LC50 - Fish [1] | > 100 mg/l Brachydanio rerio (zebra-fish) |
| EC50 - Crustacea [1] | > 919 mg/l Daphnia magna (Water flea) |
| EC50 72h - Algae [1] | > 1000 mg/l Skeletonema costatum (marine diatom) |

| acetic acid (64-19-7) | |
|-----------------------|--|
| LC50 - Fish [1] | > 1000 mg/l Oncorhynchus mykiss (Rainbow trout) |
| EC50 - Crustacea [1] | > 1000 mg/l Daphnia magna (Water flea) |
| EC50 72h - Algae [1] | > 1000 mg/l Skeletonema costatum (marine diatom) |

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12.2. Persistence and degradability

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| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

sodium acetate (127-09-3)

| | |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| Chemical oxygen demand (COD) | 0.675 g O ₂ /g substance |
| BOD (% of ThOD) | 0.53 |

acetic acid (64-19-7)

| | |
|---------------------------------|---|
| Persistence and degradability | Readily biodegradable in water, Biodegradable in soil, Very mobile in soil. |
| Biochemical oxygen demand (BOD) | 0.6 – 0.74 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.03 g O ₂ /g substance |
| ThOD | 1.07 g O ₂ /g substance |

12.3. Bioaccumulative potential

acetic acid (64-19-7)

| | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | -0.17 (25 °C) |
| Bioaccumulative potential | Low bioaccumulation potential (Log Kow < 4). |

12.4. Mobility in soil

acetic acid (64-19-7)

| | |
|-----------------|---|
| Surface tension | 0.028 N/m (20 °C) |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |

12.5. Results of PBT and vPvB assessment

Component

| | |
|---|--|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | sodium acetate (127-09-3), acetic acid (64-19-7) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | sodium acetate (127-09-3), acetic acid (64-19-7) |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations. |
| Additional information | : Do not re-use empty containers. |
| Ecological waste information | : Avoid release to the environment. |

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SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number | | | | |
| Not dangerous goods in terms of transport regulations | | | | |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|---------------|--|
| Reference code | Applicable on | Entry title or description |
| 3(a) | acetic acid | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |

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| EU restriction list (REACH Annex XVII) | | |
|--|---------------|--|
| Reference code | Applicable on | Entry title or description |
| 3(b) | acetic acid | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 40. | acetic acid | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with it.
If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers. Listed or contains substance(s) on the Denmark - Indicative list of organic solvents present in Annex 3.4.1 of the WEA Guidance C.0.1-1: Acetic acid (64-19-7)

Germany

Employment restrictions

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

Netherlands

ABM category

: B(4) - low hazard for aquatic organisms

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

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| | |
|---|-------------------------------------|
| SZW-lijst van mutagene stoffen | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : None of the components are listed |

Poland

| | |
|-----------------------------|---|
| Polish National Regulations | : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225). Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797). The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended). Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923). Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154). Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended). The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488) Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended). Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141). ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891) Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended) |
|-----------------------------|---|

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | |
|-----------------------|---|--------------|
| Section | Changed item | Comments |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Added |
| 4.1 | First-aid measures for first aider | Added |
| 4.1 | First-aid measures general | Added |
| 4.2 | Symptoms/effects after skin contact | Added |
| 4.2 | Symptoms/effects after inhalation | Added |
| 4.2 | Symptoms/effects after ingestion | Added |
| 4.2 | Symptoms/effects after eye contact | Added |
| 5.1 | Unsuitable extinguishing media | Added |
| 5.2 | Explosion hazard | Added |
| 5.2 | Fire hazard | Added |

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| Indication of changes | | |
|-----------------------|--|-----------------|
| Section | Changed item | Comments |
| 5.3 | Firefighting instructions | Added |
| 6.1 | Emergency procedures | Added |
| 6.1 | Protective equipment | Added |
| 6.1 | General measures | Added |
| 6.3 | For containment | Added |
| 7.1 | Additional hazards when processed | Added |
| 7.2 | Technical measures | Added |
| 7.2 | Packaging materials | Added |
| 7.2 | Storage conditions | Modified |
| 9 | Flammability | Modified |
| 13.1 | Product/Packaging disposal recommendations | Added |
| 13.1 | Sewage disposal recommendations | Added |
| 13.1 | Additional information | Added |
| 13.1 | Regional waste regulation | Added |
| 16 | Abbreviations and acronyms | Modified |

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| CAS-No. | Chemical Abstracts Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| COD | Chemical oxygen demand (COD) |
| CSA | Chemical safety assessment |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| ED | Endocrine disruptor |
| EN | European Standard |
| EWC | European waste catalogue |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |

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| Abbreviations and acronyms: | |
|-----------------------------|--|
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| Log Kow | Partition coefficient n-octanol/water (Log Kow) |
| Log Pow | Partition coefficient n-octanol/water (Log Pow) |
| MAK | maximum workplace concentration |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| N.O.S. | Not Otherwise Specified |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety Health Administration |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| PPE | Personal protection equipment |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| TF | Technical function |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| TWA | Time Weighted Average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| UFI | Unique Formula Identifier |

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| H226 | Flammable liquid and vapour. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| EUH210 | Safety data sheet available on request. |

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|---------------------------|--|-----------------------|
| Flam. Liq. Not classified | | On basis of test data |
|---------------------------|--|-----------------------|

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.