

according to Regulation (EC) No. 1907/2006

Revision Date 10-Jul-2024 Revision Number 4

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Description: Acetic acid, 4% v/v aqueous solution

Cat No. : 35572 Molecular Formula CH3 CO2H

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

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

Company

Thermo Fisher (Kandel) GmbH

Erlenbachweg 2, 76870 Kandel, Germany

Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300

Swiss distributor - Fisher Scientific AG Neuhofstrasse 11, CH 4153 Reinach

Tel: +41 (0) 56 618 41 11

https://www.fishersci.ch/ch/en/customer-help-

support/forms/email-us.html

E-mail address begel.sdsdesk@thermofisher.com

## 1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:

Tox Info Suisse Emergency Number: 145 (24hr)

Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)

Chemtrec (24h) Toll-Free: 0800 564 402 Chemtrec Local: +41-43 508 20 11 (Zurich)

## **SECTION 2: HAZARDS IDENTIFICATION**

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

CLP Classification - Regulation (EC) No 1272/2008

**Physical hazards** 

#### Acetic acid, 4% v/v aqueous solution

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Based on available data, the classification criteria are not met

#### **Health hazards**

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Category 2 (H315) Category 1 (H318)

#### **Environmental hazards**

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

#### 2.2. Label elements



#### Signal Word

#### **Danger**

#### **Hazard Statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

#### **Precautionary Statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors Toxic to terrestrial vertebrates

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.2. Mixtures

| Component   | CAS No    | EC No     | Weight % | CLP Classification - Regulation (EC) No 1272/2008                |
|-------------|-----------|-----------|----------|------------------------------------------------------------------|
| Water       | 7732-18-5 | 231-791-2 | 96.00    | -                                                                |
| Acetic acid | 64-19-7   | 200-580-7 | 4.00     | Flam. Liq. 3 (H226)<br>Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318) |

| Component | Specific concentration limits | M-Factor | Component notes |
|-----------|-------------------------------|----------|-----------------|
|           | (SCL's)                       |          |                 |

#### Acetic acid, 4% v/v aqueous solution

| Acetic acid | Skin Corr. 1A (H314) :: C>=90% | <del>-</del> | - |
|-------------|--------------------------------|--------------|---|
| 1.00.00     | Skin Corr. 1B (H314) ::        |              |   |
|             | 25%<=C<90%                     |              |   |
|             | Eye Irrit. 2 (H319) ::         |              |   |
|             | 10%<=C<25%                     |              |   |
|             | Skin Irrit. 2 (H315) ::        |              |   |
|             | 10%<=C<25%                     |              |   |

Full text of Hazard Statements: see section 16

## **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

**Self-Protection of the First Aider** No special precautions required.

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

None reasonably foreseeable. Causes severe eye damage.

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

Notes to Physician Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

## Extinguishing media which must not be used for safety reasons

No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors.

## **Hazardous Combustion Products**

Carbon oxides.

#### 5.3. Advice for firefighters

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As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation. Use personal protective equipment as required.

#### 6.2. Environmental precautions

Should not be released into the environment.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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

Keep container tightly closed in a dry and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Storage Class/LGK 12

Switzerland - Storage of hazardous substances

Storage class - SC 10/12

https://www.kvu.ch/de/themen/stoffe-und-produkte https://www.kvu.ch/fr/themes/substances-et-produits https://www.kvu.ch/it/temi/sostanze-e-prodotti

#### 7.3. Specific end use(s)

Use in laboratories

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

#### **Exposure limits**

List source(s): **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

CH - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is

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based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund). **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC

| Component              | European Union                                                                                                                 | The United Kingdom                                                                                                                                               | France                                                                                                                   | Belgium                                                                                | Spain                                                                                                               |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Acetic acid            | TWA: 25 mg/m <sup>3</sup> (8h)                                                                                                 | STEL: 37 mg/m <sup>3</sup>                                                                                                                                       | TWA / VME: 10 ppm (8                                                                                                     | TWA: 10 ppm 8 uren                                                                     | STEL / VLA-EC: 20 ppn                                                                                               |
|                        | TWA: 10 ppm (8h)                                                                                                               | STEL: 15 ppm                                                                                                                                                     | heures). restrictive limit                                                                                               | TWA: 25 mg/m <sup>3</sup> 8 uren                                                       | (15 minutos).                                                                                                       |
|                        | STEL: 50 mg/m³                                                                                                                 | TWA: 10 ppm                                                                                                                                                      | TWA / VME: 25 mg/m <sup>3</sup>                                                                                          | STEL: 15 ppm 15                                                                        | STÈL / VLA-EĆ: 50                                                                                                   |
|                        | (15min)                                                                                                                        | TWA: 25 mg/m <sup>3</sup>                                                                                                                                        | (8 heures). restrictive                                                                                                  | minuten                                                                                | mg/m³ (15 minutos).                                                                                                 |
|                        | STEL: 20 ppm (15min)                                                                                                           | 9                                                                                                                                                                | ` límit                                                                                                                  | STEL: 38 mg/m3 15                                                                      | TWĂ / VLA-ED: 10 ppm                                                                                                |
|                        | /                                                                                                                              |                                                                                                                                                                  | STEL / VLCT: 20 ppm.                                                                                                     | minuten                                                                                | (8 horas)                                                                                                           |
|                        |                                                                                                                                |                                                                                                                                                                  | indicative limit                                                                                                         |                                                                                        | TWA / VLA-ED: 25                                                                                                    |
|                        |                                                                                                                                |                                                                                                                                                                  | STEL / VLCT: 50                                                                                                          |                                                                                        | mg/m³ (8 horas)                                                                                                     |
|                        |                                                                                                                                |                                                                                                                                                                  | mg/m <sup>3</sup> . indicative limit                                                                                     |                                                                                        |                                                                                                                     |
|                        | •                                                                                                                              |                                                                                                                                                                  |                                                                                                                          |                                                                                        | •                                                                                                                   |
| Component              | Italy                                                                                                                          | Germany                                                                                                                                                          | Portugal                                                                                                                 | The Netherlands                                                                        | Finland                                                                                                             |
| Acetic acid            | TWA: 25 ppm 8 ore.                                                                                                             | TWA: 10 ppm (8                                                                                                                                                   | STEL: 20 ppm 15                                                                                                          | MAC-TGG 25 mg/m <sup>3</sup>                                                           | TWA: 5 ppm 8 tunteina                                                                                               |
|                        | Time Weighted Average                                                                                                          | Stunden). AGW -                                                                                                                                                  | minutos                                                                                                                  |                                                                                        | TWA: 13 mg/m <sup>3</sup> 8                                                                                         |
|                        | TWA: 10 mg/m <sup>3</sup> 8 ore.                                                                                               | exposure factor 2                                                                                                                                                | STEL: 50 mg/m <sup>3</sup> 15                                                                                            |                                                                                        | tunteina                                                                                                            |
|                        | Time Weighted Average                                                                                                          | TWA: 25 mg/m <sup>3</sup> (8                                                                                                                                     | minutos                                                                                                                  |                                                                                        | STEL: 10 ppm 15                                                                                                     |
|                        | STEL: 50 mg/m <sup>3</sup> 15                                                                                                  | Stunden). AGW -                                                                                                                                                  | TWA: 10 ppm 8 horas                                                                                                      |                                                                                        | minuutteina                                                                                                         |
|                        | minuti. Short-term                                                                                                             | exposure factor 2                                                                                                                                                | TWA: 25 mg/m <sup>3</sup> 8 horas                                                                                        |                                                                                        | STEL: 25 mg/m <sup>3</sup> 15                                                                                       |
|                        | STEL: 20 ppm 15                                                                                                                | TWA: 10 ppm (8                                                                                                                                                   | -                                                                                                                        |                                                                                        | minuutteina                                                                                                         |
|                        | minuti. Short-term                                                                                                             | Stunden). MAK                                                                                                                                                    |                                                                                                                          |                                                                                        |                                                                                                                     |
|                        |                                                                                                                                | TWA: 25 mg/m <sup>3</sup> (8                                                                                                                                     |                                                                                                                          |                                                                                        |                                                                                                                     |
|                        |                                                                                                                                | Stunden). MAK                                                                                                                                                    |                                                                                                                          |                                                                                        |                                                                                                                     |
|                        |                                                                                                                                | Höhepunkt: 20 ppm                                                                                                                                                |                                                                                                                          |                                                                                        |                                                                                                                     |
|                        |                                                                                                                                | Höhepunkt: 50 mg/m <sup>3</sup>                                                                                                                                  |                                                                                                                          |                                                                                        |                                                                                                                     |
|                        |                                                                                                                                |                                                                                                                                                                  |                                                                                                                          |                                                                                        |                                                                                                                     |
| Component              | Austria                                                                                                                        | Denmark                                                                                                                                                          | Switzerland                                                                                                              | Poland                                                                                 | Norway                                                                                                              |
| Acetic acid            | MAK-KZGW: 20 ppm 15                                                                                                            | TWA: 10 ppm 8 timer                                                                                                                                              | STEL: 20 ppm 15                                                                                                          | STEL: 50 mg/m <sup>3</sup> 15                                                          | TWA: 10 ppm 8 timer                                                                                                 |
|                        | Minuten                                                                                                                        | TWA: 25 mg/m <sup>3</sup> 8 timer                                                                                                                                | Minuten                                                                                                                  | minutach                                                                               | TWA: 25 mg/m <sup>3</sup> 8 timer                                                                                   |
|                        | MAK-KZGW: 50 mg/m <sup>3</sup>                                                                                                 | STEL: 50 mg/m <sup>3</sup> 15                                                                                                                                    | STEL: 50 mg/m <sup>3</sup> 15                                                                                            | TWA: 25 mg/m <sup>3</sup> 8                                                            | STEL: 20 ppm 15                                                                                                     |
|                        | 15 Minuten                                                                                                                     | minutter                                                                                                                                                         | Minuten                                                                                                                  | godzinach                                                                              | minutter. value from the                                                                                            |
|                        |                                                                                                                                |                                                                                                                                                                  |                                                                                                                          |                                                                                        |                                                                                                                     |
|                        | MAK-TMW: 10 ppm 8                                                                                                              | STEL: 20 ppm 15                                                                                                                                                  | TWA: 10 ppm 8                                                                                                            |                                                                                        | regulation                                                                                                          |
|                        | MAK-TMW: 10 ppm 8<br>Stunden                                                                                                   | STEL: 20 ppm 15<br>minutter                                                                                                                                      | Stunden                                                                                                                  |                                                                                        | regulation<br>STEL: 50 mg/m <sup>3</sup> 15                                                                         |
|                        |                                                                                                                                | • • •                                                                                                                                                            | • •                                                                                                                      |                                                                                        |                                                                                                                     |
|                        | Stunden                                                                                                                        | • • •                                                                                                                                                            | Stunden                                                                                                                  |                                                                                        | STEL: 50 mg/m <sup>3</sup> 15                                                                                       |
|                        | Stunden<br>MAK-TMW: 25 mg/m³ 8<br>Stunden                                                                                      | minutter                                                                                                                                                         | Stunden<br>TWA: 25 mg/m³ 8<br>Stunden                                                                                    |                                                                                        | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation                                                         |
| Component              | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria                                                                                  | minutter  Croatia                                                                                                                                                | Stunden<br>TWA: 25 mg/m³ 8<br>Stunden                                                                                    | Cyprus                                                                                 | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation                                                         |
| Component Acetic acid  | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria TWA: 25 mg/m³                                                                    | minutter  Croatia  TWA-GVI: 10 ppm 8                                                                                                                             | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr.                                                               | STEL: 50 mg/m <sup>3</sup>                                                             | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation  Czech Republic  TWA: 25 mg/m³ 8                        |
|                        | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm                                                       | Croatia TWA-GVI: 10 ppm 8 satima.                                                                                                                                | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr.                                           | STEL: 50 mg/m <sup>3</sup><br>STEL: 20 ppm                                             | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation  Czech Republic  TWA: 25 mg/m³ 8<br>hodinách.           |
|                        | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL: 50 mg/m³                                        | Croatia TWA-GVI: 10 ppm 8 satima. TWA-GVI: 25 mg/m³ 8                                                                                                            | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min                       | STEL: 50 mg/m³<br>STEL: 20 ppm<br>TWA: 10 ppm                                          | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation  Czech Republic  TWA: 25 mg/m³ 8                        |
|                        | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm                                                       | Croatia TWA-GVI: 10 ppm 8 satima. TWA-GVI: 25 mg/m³ 8 satima.                                                                                                    | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr.                                           | STEL: 50 mg/m <sup>3</sup><br>STEL: 20 ppm                                             | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation  Czech Republic  TWA: 25 mg/m³ 8<br>hodinách.           |
|                        | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL: 50 mg/m³                                        | Croatia TWA-GVI: 10 ppm 8 satima. TWA-GVI: 25 mg/m³ 8 satima. STEL-KGVI: 20 ppm 15                                                                               | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min                       | STEL: 50 mg/m³<br>STEL: 20 ppm<br>TWA: 10 ppm                                          | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation  Czech Republic  TWA: 25 mg/m³ 8<br>hodinách.           |
|                        | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL: 50 mg/m³                                        | Croatia  TWA-GVI: 10 ppm 8 satima.  TWA-GVI: 25 mg/m³ 8 satima.  STEL-KGVI: 20 ppm 15 minutama.                                                                  | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min                       | STEL: 50 mg/m³<br>STEL: 20 ppm<br>TWA: 10 ppm                                          | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation  Czech Republic  TWA: 25 mg/m³ 8<br>hodinách.           |
|                        | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL: 50 mg/m³                                        | Croatia  TWA-GVI: 10 ppm 8 satima.  TWA-GVI: 25 mg/m³ 8 satima.  STEL-KGVI: 20 ppm 15 minutama.  STEL-KGVI: 50 mg/m³                                             | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min                       | STEL: 50 mg/m³<br>STEL: 20 ppm<br>TWA: 10 ppm                                          | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation  Czech Republic  TWA: 25 mg/m³ 8<br>hodinách.           |
|                        | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL: 50 mg/m³                                        | Croatia  TWA-GVI: 10 ppm 8 satima.  TWA-GVI: 25 mg/m³ 8 satima.  STEL-KGVI: 20 ppm 15 minutama.                                                                  | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min                       | STEL: 50 mg/m³<br>STEL: 20 ppm<br>TWA: 10 ppm                                          | STEL: 50 mg/m³ 15<br>minutter. value from the<br>regulation  Czech Republic  TWA: 25 mg/m³ 8<br>hodinách.           |
| Acetic acid            | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL : 50 mg/m³ STEL : 20 ppm                         | Croatia  TWA-GVI: 10 ppm 8 satima.  TWA-GVI: 25 mg/m³ 8 satima.  STEL-KGVI: 20 ppm 15 minutama.  STEL-KGVI: 50 mg/m³ 15 minutama.                                | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min STEL: 50 mg/m³ 15 min | STEL: 50 mg/m³<br>STEL: 20 ppm<br>TWA: 10 ppm<br>TWA: 25 mg/m³                         | STEL: 50 mg/m³ 15 minutter. value from the regulation  Czech Republic  TWA: 25 mg/m³ 8 hodinách.  Ceiling: 50 mg/m³ |
| Acetic acid  Component | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL : 50 mg/m³ STEL : 20 ppm                         | Croatia  TWA-GVI: 10 ppm 8 satima.  TWA-GVI: 25 mg/m³ 8 satima.  STEL-KGVI: 20 ppm 15 minutama.  STEL-KGVI: 50 mg/m³ 15 minutama.                                | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min STEL: 50 mg/m³ 15 min | STEL: 50 mg/m <sup>3</sup><br>STEL: 20 ppm<br>TWA: 10 ppm<br>TWA: 25 mg/m <sup>3</sup> | STEL: 50 mg/m³ 15 minutter. value from the regulation  Czech Republic  TWA: 25 mg/m³ 8 hodinách.  Ceiling: 50 mg/m³ |
| Acetic acid            | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL : 50 mg/m³ STEL : 20 ppm  Estonia  TWA: 10 ppm 8 | Croatia  TWA-GVI: 10 ppm 8 satima.  TWA-GVI: 25 mg/m³ 8 satima.  STEL-KGVI: 20 ppm 15 minutama.  STEL-KGVI: 50 mg/m³ 15 minutama.  Gibraltar  TWA: 25 mg/m³ 8 hr | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min STEL: 50 mg/m³ 15 min | STEL: 50 mg/m³ STEL: 20 ppm TWA: 10 ppm TWA: 25 mg/m³  Hungary STEL: 20 ppm 15         | STEL: 50 mg/m³ 15 minutter. value from the regulation  Czech Republic  TWA: 25 mg/m³ 8 hodinách.  Ceiling: 50 mg/m³ |
| Acetic acid  Component | Stunden MAK-TMW: 25 mg/m³ 8 Stunden  Bulgaria  TWA: 25 mg/m³ TWA: 10 ppm STEL : 50 mg/m³ STEL : 20 ppm                         | Croatia  TWA-GVI: 10 ppm 8 satima.  TWA-GVI: 25 mg/m³ 8 satima.  STEL-KGVI: 20 ppm 15 minutama.  STEL-KGVI: 50 mg/m³ 15 minutama.                                | Stunden TWA: 25 mg/m³ 8 Stunden  Ireland TWA: 20 ppm 8 hr. TWA: 50 mg/m³ 8 hr. STEL: 20 ppm 15 min STEL: 50 mg/m³ 15 min | STEL: 50 mg/m <sup>3</sup><br>STEL: 20 ppm<br>TWA: 10 ppm<br>TWA: 25 mg/m <sup>3</sup> | STEL: 50 mg/m³ 15 minutter. value from the regulation  Czech Republic  TWA: 25 mg/m³ 8 hodinách.  Ceiling: 50 mg/m³ |

| Component   | Estonia                       | Gibraltar                         | Greece                     | Hungary                       | Iceland                     |
|-------------|-------------------------------|-----------------------------------|----------------------------|-------------------------------|-----------------------------|
| Acetic acid | TWA: 10 ppm 8                 | TWA: 25 mg/m <sup>3</sup> 8 hr    | STEL: 15 ppm               | STEL: 20 ppm 15               | STEL: 20 ppm                |
|             | tundides.                     | TWA: 10 ppm 8 hr                  | STEL: 37 mg/m <sup>3</sup> | percekben. CK                 | STEL: 50 mg/m <sup>3</sup>  |
|             | TWA: 25 mg/m <sup>3</sup> 8   | STEL: 50 mg/m <sup>3</sup> 15 min | TWA: 10 ppm                | STEL: 50 mg/m <sup>3</sup> 15 | TWA: 10 ppm 8               |
|             | tundides.                     | STEL: 20 ppm 15 min               | TWA: 25 mg/m <sup>3</sup>  | percekben. CK                 | klukkustundum.              |
|             | STEL: 10 ppm 15               |                                   |                            | TWA: 10 ppm 8 órában.         | TWA: 25 mg/m <sup>3</sup> 8 |
|             | minutites.                    |                                   |                            | AK                            | klukkustundum.              |
|             | STEL: 25 mg/m <sup>3</sup> 15 |                                   |                            | TWA: 25 mg/m <sup>3</sup> 8   |                             |
|             | minutites.                    |                                   |                            | órában. AK                    |                             |

| Component   | Latvia                     | Lithuania                      | Luxembourg                    | Malta                         | Romania                         |
|-------------|----------------------------|--------------------------------|-------------------------------|-------------------------------|---------------------------------|
| Acetic acid | STEL: 50 mg/m <sup>3</sup> | TWA: 10 ppm IPRD               | TWA: 10 ppm 8                 | TWA: 10 ppm                   | TWA: 10 ppm 8 ore               |
|             | STEL: 20 ppm               | TWA: 25 mg/m <sup>3</sup> IPRD | Stunden                       | TWA: 25 mg/m <sup>3</sup>     | TWA: 25 mg/m <sup>3</sup> 8 ore |
|             | TWA: 10 ppm                | STEL: 50 mg/m <sup>3</sup>     | TWA: 25 mg/m <sup>3</sup> 8   | STEL: 20 ppm 15 minuti        | STEL: 20 ppm 15                 |
|             | TWA: 25 mg/m <sup>3</sup>  | STEL: 20 ppm                   | Stunden                       | STEL: 50 mg/m <sup>3</sup> 15 | minute                          |
|             | _                          |                                | STEL: 50 mg/m <sup>3</sup> 15 | minuti                        | STEL: 50 mg/m <sup>3</sup> 15   |
|             |                            |                                | Minuten                       |                               | minute                          |
|             |                            |                                | STEL: 20 ppm 15               |                               |                                 |

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|             |                                           |                                                   | Minuten                                                                                                  |                                                                                                                                             |                                                        |
|-------------|-------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|             |                                           |                                                   |                                                                                                          |                                                                                                                                             |                                                        |
| Component   | Russia                                    | Slovak Republic                                   | Slovenia                                                                                                 | Sweden                                                                                                                                      | Turkey                                                 |
| Acetic acid | Skin notation<br>MAC: 5 mg/m <sup>3</sup> | Ceiling: 50 mg/m³<br>TWA: 10 ppm<br>TWA: 25 mg/m³ | TWA: 10 ppm 8 urah<br>TWA: 25 mg/m³ 8 urah<br>STEL: 50 mg/m³ 15<br>minutah<br>STEL: 20 ppm 15<br>minutah | Binding STEL: 10 ppm<br>15 minuter<br>Binding STEL: 25<br>mg/m³ 15 minuter<br>TLV: 5 ppm 8 timmar.<br>NGV<br>TLV: 13 mg/m³ 8<br>timmar. NGV | TWA: 10 ppm 8 saat<br>TWA: 25 mg/m <sup>3</sup> 8 saat |

## **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### **Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Compon             | ent Acute effe<br>(Inhala |                     | e effects Chronic ef<br>(Inhalation) (Inhala |         |
|--------------------|---------------------------|---------------------|----------------------------------------------|---------|
| Acetic a 64-19-7 ( |                           | 25mg/m <sup>3</sup> | DNEL = 2                                     | 25mg/m³ |

#### **Predicted No Effect Concentration (PNEC)**

See values below.

| ſ | Component        | Fresh water      | Fresh water | Water Intermittent | Microorganisms in | Soil (Agriculture) |
|---|------------------|------------------|-------------|--------------------|-------------------|--------------------|
| L |                  |                  | sediment    |                    | sewage treatment  |                    |
| Γ | Acetic acid      | PNEC = 3.058mg/L | PNEC =      | PNEC = 30.58mg/L   | PNEC = 85mg/L     | PNEC = 0.47 mg/kg  |
|   | 64-19-7 ( 4.00 ) |                  | 11.36mg/kg  |                    |                   | soil dw            |
| L |                  |                  | sediment dw |                    |                   |                    |

| Component                       | Marine water         | Marine water<br>sediment | Marine water<br>Intermittent | Food chain | Air |
|---------------------------------|----------------------|--------------------------|------------------------------|------------|-----|
| Acetic acid<br>64-19-7 ( 4.00 ) | PNEC =<br>0.3058mg/L | PNEC =<br>1.136mg/kg     |                              |            |     |
| 04-19-7 ( 4.00 )                | 0.3030Hig/L          | sediment dw              |                              |            |     |

## 8.2. Exposure controls

#### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

## Personal protective equipment

**Eye Protection** Goggles (European standard - EN 166)

A1 FA A25572

#### Acetic acid, 4% v/v aqueous solution

Hand Protection Protective gloves

| Glove material Breakthroug Natural rubber See manufa Butyl rubber recommend Nitrile rubber Neoprene PVC | cturers - | EU standard<br>EN 374 | Glove comments<br>(minimum requirement) |  |
|---------------------------------------------------------------------------------------------------------|-----------|-----------------------|-----------------------------------------|--|
|---------------------------------------------------------------------------------------------------------|-----------|-----------------------|-----------------------------------------|--|

Skin and body protection

Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Particulates filter conforming to EN 143 Acid gases filter Type

Liquid

E Yellow conforming to EN14387

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

141

When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** No information available.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. Information on basic physical and chemical properties

Physical State Liquid

Colorless **Appearance** vinegar-like Odor **Odor Threshold** No data available **Melting Point/Range** No data available **Softening Point** No data available **Boiling Point/Range** 100 °C / 212 °F Flammability (liquid) No data available Not applicable Flammability (solid, gas)

Explosion Limits No data available

Flash Point No information available Method - No information available

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availablepHNo information availableViscosityNo data available

Water Solubility Miscible

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Acetic acid -0.2

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#### Acetic acid, 4% v/v aqueous solution

Vapor Pressure No data available

Density / Specific Gravity1.00196 g/cm3@ 20 °CBulk DensityNot applicableLiquidVapor DensityNo data available(Air = 1.0)

Particle characteristics Not applicable (liquid)

9.2. Other information

Molecular FormulaCH3 CO2HMolecular Weight60.05

## **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous PolymerizationNo information available.Hazardous ReactionsNone under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon oxides.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

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

#### **Product Information**

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

#### Toxicology data for the components

| Component   | LD50 Oral        | LD50 Dermal | LC50 Inhalation     |
|-------------|------------------|-------------|---------------------|
| Water       | -                | -           | -                   |
| Acetic acid | 3310 mg/kg (Rat) | -           | > 40 mg/L (Rat) 4 h |

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 1

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(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and No information available. delayed

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

## **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity
Ecotoxicity effects

 Component
 Freshwater Fish
 Water Flea
 Freshwater Algae

 Acetic acid
 Pimephales promelas: LC50 = 88 mg/L/96h
 EC50 = 95 mg/L/24h

 Lepomis macrochirus: LC50 = 75 mg/L/96h

| Component   | Microtox                                      | M-Factor |
|-------------|-----------------------------------------------|----------|
| Acetic acid | Photobacterium phosphoreum: EC50 = 8.8        |          |
|             | mg/L/15 min                                   |          |
|             | Photobacterium phosphoreum: EC50 = 8.8        |          |
|             | mg/L/25 min                                   |          |
|             | Photobacterium phosphoreum: EC50 = 8.8 mg/L/5 |          |
|             | min                                           |          |

12.2. Persistence and degradability

**Persistence** Miscible with water, Persistence is unlikely, based on information available.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

#### Acetic acid, 4% v/v aqueous solution

| Component   | log Pow | Bioconcentration factor (BCF) |
|-------------|---------|-------------------------------|
| Acetic acid | -0.2    | No data available             |

12.4. Mobility in soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the

environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB

assessment

No data available for assessment.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected substance This product does not contain any known or suspected substance

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from Residues/Unused

**Products** 

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

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**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used. Do not empty into drains. Do not flush to sewer.

Switzerland - Waste Ordinance Disposal should be in accordance with applicable regional, national and local laws and

regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance,

ADWO) SR 814.600

https://www.fedlex.admin.ch/eli/cc/2015/891/en

## **SECTION 14: TRANSPORT INFORMATION**

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA Not regulated

#### Acetic acid, 4% v/v aqueous solution

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards No hazards identified

**14.6. Special precautions for user** No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

## **SECTION 15: REGULATORY INFORMATION**

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

#### **International Inventories**

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Taiwan (TCSI), Japan (ISHL), New Zealand (NZIoC), Japan (ISHL). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component   | CAS No    | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|-------------|-----------|-----------|--------|-----|-------|------|----------|------|------|
| Water       | 7732-18-5 | 231-791-2 | ı      | -   | X     | X    | KE-35400 | Χ    | i    |
| Acetic acid | 64-19-7   | 200-580-7 | -      | -   | Х     | X    | X        | Х    | X    |

| Component   | CAS No    | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|-------------|-----------|------|-----------------------------------------------------|-----|------|------|-------|-------|
| Water       | 7732-18-5 | X    | ACTIVE                                              | X   | -    | X    | Х     | Х     |
| Acetic acid | 64-19-7   | Х    | ACTIVE                                              | X   | -    | Х    | Х     | Х     |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### Authorisation/Restrictions according to EU REACH

| Component   | CAS No    | REACH (1907/2006) -<br>Annex XIV - Substances<br>Subject to Authorization |                           | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|-------------|-----------|---------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|
| Water       | 7732-18-5 | -                                                                         | -                         | -                                                                                                                 |
| Acetic acid | 64-19-7   | -                                                                         | Use restricted. See entry | -                                                                                                                 |
|             |           |                                                                           | 75.                       |                                                                                                                   |
|             |           |                                                                           | (see link for restriction |                                                                                                                   |
|             |           |                                                                           | details)                  |                                                                                                                   |

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

#### Seveso III Directive (2012/18/EC)

| Component   | CAS No    | Seveso III Directive (2012/18/EC) -<br>Qualifying Quantities for Major Accident<br>Notification | Seveso III Directive (2012/18/EC) -<br>Qualifying Quantities for Safety Report<br>Requirements |
|-------------|-----------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Water       | 7732-18-5 | Not applicable                                                                                  | Not applicable                                                                                 |
| Acetic acid | 64-19-7   | Not applicable                                                                                  | Not applicable                                                                                 |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

\_\_\_\_\_

#### Acetic acid, 4% v/v aqueous solution

Not applicable

## Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

## **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

Water endangering class = 1 (self classification)

| Component   | Germany - Water Classification (AwSV) | Germany - TA-Luft Class                   |  |
|-------------|---------------------------------------|-------------------------------------------|--|
| Acetic acid | WGK1                                  | Class II: 0.10 g/m³ (Massenkonzentration) |  |

#### **Swiss Regulations**

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

|                  | Component   | Reduction of Risk from<br>handling of hazardous<br>substances preparation (SR<br>814.81) |         | Switzerland - Ordinance of the<br>Rotterdam Convention on the<br>Prior Informed Consent<br>Procedure |
|------------------|-------------|------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------|
| Γ                | Acetic acid | Prohibited and Restricted                                                                | Group I |                                                                                                      |
| 64-19-7 ( 4.00 ) |             | Substances                                                                               |         |                                                                                                      |

#### 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## SECTION 16: OTHER INFORMATION

#### Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H318 - Causes serious eye damage

H226 - Flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

#### Legend

**CAS** - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances Substances List

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**ENCS** - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

#### Acetic acid, 4% v/v aqueous solution

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RPE - Respiratory Protective Equipment LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50%EC50 - Effective Concentration 50%NOEC - No Observed Effect ConcentrationPOW - Partition coefficient Octanol:WaterPBT - Persistent, Bioaccumulative, ToxicvPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate
VOC - (volatile organic compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

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

Physical hazards On basis of test data
Health Hazards Calculation method
Environmental hazards Calculation method

**Training Advice** 

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Prepared By Health, Safety and Environmental Department

Revision Date 10-Jul-2024

**Revision Summary** New emergency telephone response service provider.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No. 1907/2006

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of Safety Data Sheet**