

# SAFETY DATA SHEET

This document is in compliance with requirements for Safety Data Sheets implemented under the European Union regulation on the Classification, Labelling, and Packaging of Substances and Mixtures (EC No. 1272/2008, EU 2020/878; , EU 2024/2865) and the standard of other nations. See section 16 for more information on the national regulations pertinent to this documentation.

## SECTION 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFICATION

- **PRODUCT NAME:** Sample Buffer
- **PRODUCT CODE:** 806-00036-00

### 1.2 PRODUCT USE AND RESTRICTIONS

- **IDENTIFIED USE:** Kit component for protein sequencing process.
- **USES ADVISED AGAINST:** Procedures not related to the intended use of this product.
- **IDENTIFIED USERS:** For sale to, use, and storage by personnel trained in handling product safely.

### 1.3 MANUFACTURER INFORMATION

- **MANUFACTURER/SUPPLIER:** Quantum SI, Inc.
- **ADDRESS:** 29 Business Park Dr., Suite C; Branford, CT; 06405
- **BUSINESS PHONE:** 866-688-7374 (8:00 am to 5:00 pm, Eastern Standard Time)
- **EMERGENCY PHONE:** +1- Chemtrec (US and Canada): +1-800-424-9300  
Outside US): +1-703- 527-3887  
**Tox Info Suisse:** 145 (in Switzerland); +41 44 251 51 51 (Abroad)
- **Email:** support@quantum-si.com

## SECTION 2: HAZARD IDENTIFICATION

### 2.1 HAZARD CLASSIFICATION (EU CLP)

- Flammable Liquids (Category 2); Eye irritation (Category 2A)

### 2.2 LABEL ELEMENTS (EU CLP)

- **Hazard Pictograms:**



- **Signal Word:** Danger
- **Hazard Statements:** H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation.
- **Precautionary Statements:**

**PREVENTION:** P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P233: Keep container tightly closed. P264+P265: Wash hands thoroughly after handling. Do not touch eyes. P280: Wear protective gloves, protective clothing, and eye protection.

**RESPONSE:** P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P317: If eye irritation persists, get medical help. P370+P378: In case of fire, use CO2, dry chemical, or foam to extinguish.

**STORAGE:** P403+P235 Store in a well-ventilated place. Keep cool.

**DISPOSAL:** P501: Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3 OTHER PERTINENT DATA ON HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS

- **Contains no material classified as follows:** Endocrine disrupting properties: In relation to human health and in relation to the environment (ED). Persistent, Bioaccumulative and Toxic (PBT); Very persistent and very bioaccumulative (vPvB); Persistent, mobile and toxic (PMT)' Very persistent and very mobile (vPvM).

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 IDENTIFICATION OF HAZARDOUS SUBSTANCES IN PRODUCT

NAME	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w) <sup>1</sup>
Acetonitrile	75-05-8	Flammable liquids (Category 2); Acute toxicity – Oral (Category 4); Acute toxicity – Inhalation (Category 4); Acute toxicity – Dermal (Category 4); Eye irritation (Category 2A)	20%
The remaining ingredients do not pose a significant physical or health hazard.			Balance

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

#### BASIC FIRST AID BY EXPOSURE ROUTE:

##### AREA EXPOSED      TREATMENT

**Eye Contact:** Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention should any irritation develop.

**Skin Contact:** Flush area with warm, running water for several minutes. Seek medical attention should any irritation develop, or signs of an allergic skin reaction arise (redness, itching).

**Inhalation:** Obtain fresh air. Seek medical attention if irritation develops after exposure ends.

**Ingestion:** If conscious only: Rinse mouth with water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

#### ACUTE HEALTH EFFECTS:

##### AREA EXPOSED      EFFECTS

**Eye Contact:** Causes serious eye irritation.

**Skin Contact:** May cause skin irritation upon prolonged exposure.

**Inhalation:** May cause respiratory irritation upon prolonged exposure.

**Ingestion:** Not anticipated to be a potential route of exposure.

#### CHRONIC HEALTH EFFECTS: None known.

#### TARGET ORGANS: None known.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- GENERAL INFORMATION: For all exposures:** In case of accident, or if you feel unwell, seek medical advice immediately. Take this document and a copy of the label to the healthcare professional.
- RECOMMENDATIONS TO PHYSICIANS:** Treat symptomatically.
- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** None known.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

- RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Dry Powder, Foam, Carbon Dioxide, or any other type.
- UNSUITABLE FIRE EXTINGUISHING MEDIA:** None.

<sup>1</sup> The exact composition is a trade secret. All required hazard and safety information has been provided for the products, per the regulations.

## SECTION 5: FIREFIGHTING MEASURES (Continued)

### 5.2 UNUSUAL HAZARDS IN FIRE SITUATIONS

#### POTENTIAL HAZARD

**Decomposition:**

**Incompatibilities:**

**Explosion Sensitivity to Mechanical Impact:**

**Explosion Sensitivity to Static Discharge:**

#### DESCRIPTION FOR PRODUCT

Fire may cause evolution of nitrogen oxides and hydrogen cyanide. Produces irritating vapors, oxides of carbon and nitrogen. See Section 10 (Reactivity and Stability).

Not applicable.

Not applicable.

### 5.3 ADVICE FOR FIREFIGHTERS

- Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from the fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material. Subsequently, personnel can follow the instructions for incidental releases.
- RESPONSE PROCEDURES FOR ANY RELEASE:** Use a damp sponge or polypad to carefully cleanse contaminated area or items. If appropriate, further clean contaminated area and equipment with soap and water solution, followed by a water rinse.

### 6.2 ENVIRONMENTAL PRECAUTIONS

- IN CASE OF SPILL:** Collect spillage promptly. Avoid response actions that can cause a release of a significant amount of substance into the environment. Avoid accidental dispersal of spilled material into soil, waterways, and sewers.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

- SPILL RESPONSE EQUIPMENT:** Polypad or sponge. Appropriate waste container.

### 6.4 REFERENCE TO OTHER SECTIONS

- See Section 8 (Exposure Controls/Personal Protection) for personal protective equipment recommendations.
- See Section 13 (Disposal Recommendations) for information on waste disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

- HYGIENE PRACTICES:** Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists, sprays, or aerosols. Use in a well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
- HANDLING PRACTICES:** Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

### 7.2 CONDITIONS FOR SAFE STORAGE

- STORAGE PRACTICES:** Ensure all containers are correctly labeled. Store containers away from direct sunlight and sources of intense heat. Store this product away from incompatible chemicals. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged. Empty containers may contain residual material; therefore, empty containers should be handled with care.
- INCOMPATIBILITIES:** See Section 10 (Stability and Reactivity).

### 7.3 SPECIFIC END USES

- This product is for use in protein sequencing processes by trained laboratory personnel.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

- AIRBORNE EXPOSURE LIMITS:**

- The following airborne occupational exposure limits have been established:

Component	CAS-No.	United States	Canada, United Kingdom	EU OEL
Acetonitrile	75-05-8	OSHA PEL (TWA): 40 ppm NIOSH REL (TWA) 20 ppm ACGIH (TWA): 20 ppm	TWA: 20ppm STEL (15 minutes): 60 ppm	TWA: TWA 8 hours: 40 ppm (Skin)

- BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** None established.
- DERIVED NO EFFECTS LEVEL:** The following levels have been established for acetonitrile:
  - DERMAL:** Acute effects local: DNEL = 22 mg/cm<sup>2</sup>; Chronic effects systemic: DNEL = 32.2 mg/kg bodyweight/day
  - INHALATION:** Acute effects systemic: DNEL = 102 mg/m<sup>3</sup>; Chronic effects systemic: DNEL = 68 mg/m<sup>3</sup>
- PREDICTED NO EFFECT CONCENTRATION:** The following data is available for acetonitrile:
  - Fresh water:** PNEC = 10 mg/L
  - Fresh water sediment:** PNEC = 40.5 mg/kg sediment dry weight
  - Marine water:** PNEC = 1 mg/L
  - Marine water sediment:** PNEC = 4.05 mg/kg sediment dry weight
  - Soil:** PNEC = 2.23 mg/kg soil dry weight
  - Sewage treatment plant microorganisms:** PNEC = 32 mg/L

### 8.2 EXPOSURE CONTROLS

- GENERAL GUIDELINES:** This product is intended for use by trained personnel as part of a kit.
- ENGINEERING CONTROLS:** Ensure the area has adequate ventilation to ensure minimal inhalation of mists or sprays. Eyewash stations should be readily available.
- RESPIRATORY PROTECTION:** Required when vapors are generated, but certified engineering controls may eliminate the need for extra respiratory protection.
- HAND PROTECTION:** Neoprene or nitrile gloves are recommended if skin contact can occur (e.g., spill clean-up). Ensure gloves are intact prior to use.
- EYE PROTECTION:** Safety glasses are required when handling.
- BODY PROTECTION:** Body protection suitable to task is recommended (e.g., laboratory coat).
- OTHER PROTECTIVE MEASURES:** Wash hands during breaks and at the end of handling the material. Immediately remove any contaminated clothing.

### 8.3 ENVIRONMENTAL EXPOSURE CONTROLS

- Minimize the generation of mists, sprays, or aerosols while using this product. Avoid release into the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE AND DISTINGUISHING CHARACTERISTICS:**

PROPERTY	DATA
State:	Liquid
Color:	White
Odor:	Sweet, ether-like
Odor Threshold:	Not determined
pH:	9.2

- PHYSICAL DATA:**

PROPERTY	DATA
Melting Point/Freezing Point:	Not determined.
Initial Boiling Point/Boiling Range:	≥ 100°C
Flash Point:	21.1°C (70°F)
Evaporation Rate (Water = 1):	Approximately 1.0
Flammability:	Flammable.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

Upper/Lower Explosion Limits	Not applicable.
Vapor Pressure:	Not determined.
Vapor Density	Not determined.
Relative Density at 20 °C (68 °F)	Not determined.
Solubility:	Soluble in water
Partition Coefficient/n-octanol/water:	Not determined
Autoignition Temperature:	Not applicable.
Decomposition Temperature:	Not determined.
Kinematic Viscosity:	Not determined.
Particle Characteristics:	Not applicable.

### 9.2 INFORMATION RELEVANT TO PHYSICAL HAZARD CLASSIFICATION

- **Information regarding Physical Hazard Classes** Flammable liquid (Category 2).
- **Other Safety Characteristics** Eye irritant (Category 2A)
- **Volatile Organic Content (VOC)** 20% Switzerland estimated

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY AND CHEMICAL STABILITY

- The product is not reactive under typical conditions of use or handling.
- Normally stable under standard temperatures and pressures.

### 10.2 POSSIBILITY OF HAZARDOUS REACTIONS (INCLUDING THOSE ASSOCIATED WITH FORESEEABLE EMERGENCY)

- Product is not self-reactive, water-reactive, or air-reactive; it will not undergo hazardous polymerization.

### 10.3 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals and adverse storage conditions.

### 10.4 INCOMPATIBLE MATERIALS

- Strong oxidizing agents.

### 10.5 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include carbon oxides, carbon monoxide, carbon dioxide, and compounds of sodium and nitrogen.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON ACUTE TOXICITY

- **PRODUCT TOXICOLOGY DATA:** This product is not classified as acutely toxic by inhalation, ingestion, or skin contact.
- **COMPONENT TOXICOLOGY DATA:** The following data are available for components of this product:

#### Acetonitrile

LD 50 (oral, mouse) = 617 mg/kg  
 LC50 (inhalation, mouse, male and female, 4 h) = 6.022 mg/L – vapor  
 LD50 (dermal, estimate) = 1,500 mg/kg

- **DEGREE OF IRRITATION:** This product causes serious eye irritation.
- **SENSITIZATION:** This product is not considered to be a sensitizer.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazard Information) and Section 4 (First-Aid Measures) for additional details.
  - **Eyes:** Causes serious eye damage upon exposure.
  - **Skin:** May cause irritation upon prolonged exposure.
  - **Inhalation:** May cause respiratory irritation upon prolonged exposure.
  - **Ingestion:** Not anticipated to be a route of occupational exposure.

## SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

### 11.2 INFORMATION ON CHRONIC TOXICITY

- **CARCINOGENICITY STATUS:** This product is not listed as a carcinogen by NTP, IARC, or OSHA.
- **REPRODUCTIVE TOXICITY INFORMATION:** Not applicable.
- **MUTAGENIC EFFECTS** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

### 11.3 OTHER USEFUL TOXICOLOGY INFORMATION

- **ENDOCRINE-DISRUPTING PROPERTIES:** Not applicable.
- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 ENVIRONMENTAL TOXICITY

- The following aquatic toxicity data are available for the components of this product:

#### Acetonitrile

LC50: 1850 mg/L, *Lepomis macrochirus*, 96 hours

LC50: 1000 mg/L, *Pimephales promelas*, 96 hours

### 12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.
- The following data is available for the components of this product:
  - **Acetonitrile:** Aerobic – Exposure time 21 days. Concentration: 684 mg/L. Result: 70% - Readily biodegradable

### 12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.

### 12.4 MOBILITY IN SOIL

- Based on its total solubility in water, this product is expected to have significant mobility in soil.

### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

- Not classified as PBT or vPvB.

### 12.6 ENDOCRINE DISRUPTING PROPERTIES

- None reported.

### 12.7 OTHER ADVERSE ENVIRONMENTAL EFFECTS

- None reported.

## SECTION 13: DISPOSAL CONSIDERATION

### 13.1 WASTE TREATMENT METHODS

- Dispose of in accordance with local, state, and national regulations.
- Swiss Waste Disposal Code: A4150 refers to "Waste chemical substances arising from research and development or teaching activities which are not identified or new and whose effects on human health and/or the environment are not known".

### 13.2 DISPOSAL CONSIDERATIONS

- **SEWAGE DISPOSAL:** Waste should not be disposed of by release to sewers.

## SECTION 13: DISPOSAL CONSIDERATION (Continued)


### 13.3 DISPOSITION OF EMPTY CONTAINERS

- Empty containers may contain residual material; therefore, empty containers should be handled with care.
- Empty containers should be discarded properly.

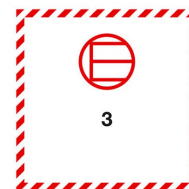
## SECTION 14: TRANSPORT INFORMATION

### 14.1 HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS

- **DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS FOR PRODUCT:**

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
UN1648	Acetonitrile Solution	II	3		128	No

- **US DOT SMALL QUANTITY:** 6 mL tubes will qualify for small quantity exemption under 49 CFR 171.4.
- **IATA DESIGNATION:** 6 mL tubes can be shipped as Excepted Quantity under IATA Section 2.6 "Dangerous goods in excepted quantities". See symbol to right.
- **IMO DESIGNATION:** IMDG Code section that covers excepted quantity shipments is Section 3.5, titled "Dangerous goods packed in excepted quantities". See symbol to right.



### 14.2 ENVIRONMENTAL HAZARDS

- None known.

### 14.3 SPECIAL PRECAUTIONS FOR TRANSPORTERS

- None established.

### 14.4 TRANSPORT IN BULK

- **ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:** Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1 EUROPEAN UNION SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- **E.U. REACH:**
  - Acetonitrile is subject to REACH restrictions.
  - Acetonitrile EINECS Number is 200-835-2.

### 15.2 EUROPEAN UNION CHEMICAL SAFETY ASSESSMENT

- **ASSESSMENT INFORMATION:** No chemical safety assessment has been conducted.

**Additional information related to specific national requirements for other regions is listed in the following sections.**

### 15.3 ARGENTINA: PERTINENT REGULATIONS

- **STANDARD IRAM 41400-AR** (Chemical Products - Safety Data Sheet): This safety data sheet is prepared in accordance with the requirements of Argentina.
- **Carcinogenic Substances and Agents Registry.** Not applicable.
- **Control of Precursors and Essential Chemicals for the Preparation of Drugs:** Not applicable.

### 15.4 AUSTRALIA: PERTINENT REGULATIONS

- **National Code of Practice for the Preparation of Safety Data Sheets [NOHSC:2011(2003)]:** This safety data sheet is prepared in accordance with the requirements of Australia.
- **Australian Inventory of Industrial Chemicals (AIIC):** Acetonitrile is listed.
- **No component included in the Therapeutic Goods (Permissible Ingredients) Determination No. 3 of 2017**



## SECTION 15: REGULATORY INFORMATION (Continued)

### 15.5 BAHRAIN: PERTINENT REGULATIONS

- resolution No. 4 of 2006 on the Management of Hazardous Chemicals (Articles 1 and 9): This safety data sheet is prepared in accordance with the requirements of Bahrain.

### 15.6 BRAZIL: PERTINENT REGULATIONS

- ABNT NBR 14725:2023 –Official Order Establishing the Globally Harmonized System of the Classification and Labelling of Chemicals: This safety data sheet is prepared in accordance with the requirements of Brazil.
- National List of Carcinogenic Agents for Humans - (LINACH): Not applicable.
- List of Chemicals Controlled by the Federal Police: Not applicable.

### 15.7 CHILE: PERTINENT REGULATIONS

- NCh 2245:2021 (Chemical Product Safety Data Sheet – Order and Content of Sections): This safety data sheet is prepared in accordance with the requirements of Chile.
- Chilean Chemical Inventory established under Decree 57/2019: Acetonitrile is listed.
- List of Chemicals Controlled by the Federal Police: Not applicable.

### 15.8 EGYPT: PERTINENT REGULATIONS

- Ministerial Decree No. 610/2020, which mandates the Egyptian Standard ES 8398 (Safety Data Sheet for Chemical Products — Content and Order of Sections). This safety data sheet is prepared in accordance with the requirements of Egypt.
- Hazardous Substances List: Acetonitrile is listed.

### 15.9 INDIA: PERTINENT REGULATIONS

- Schedule 9 – The Manufacture, Storage, and Import of Hazardous Chemicals Rule, 1989: This safety data contains all information required under the regulations in India.
- List of Hazardous and Toxic Chemicals: Acetonitrile is listed.

### 15.10 INDONESIA: PERTINENT REGULATIONS

- decree of Ministry of Industry No.23/M-IND/PER/4/2013: This safety data contains all information required under the regulations in Indonesia.
- List of Usable Hazardous and Toxic Substances: Acetonitrile is listed.

### 15.11 ISRAEL: PERTINENT REGULATIONS

- Israel Standard 2302-1 (2004) –Classification, Packaging, Labeling, and Marking of Dangerous Materials: This safety data contains all information required under the regulations in Israel.

### 15.12 JAPAN: PERTINENT REGULATIONS

- JIS Z 7253:2019– (Safety Data Sheets for Chemical Products): This safety data contains all information required under the regulations in Japan.
- Japanese Existing and New Chemical Substances Inventory (ENCS): Acetonitrile is listed on the ENCS with METI number 2-1508.
- Industrial Safety and Health Law (ISHL) Inventory: Acetonitrile is listed on the ISHL inventory.
- Chemical Substance Control Law (CSCL) Inventory: Acetonitrile is included in the inventory.

### 15.13 JORDAN: PERTINENT REGULATIONS

- 29 CFR 1910.1200 (US Hazard Communication Standard): This safety data contains all information required under the regulations in Jordan.

### 15.14 KENYA: PERTINENT REGULATIONS

- Environmental Management and Coordination (Toxic and Hazardous Chemicals and Materials) Regulations. This safety data contains all information required under the regulations in Jordan.

### 15.15 KOSOVO: PERTINENT REGULATIONS

- Article 24 of the Law on Chemicals. This safety data contains all information required under the regulations in Jordan.

### 15.16 MALAYSIA: PERTINENT REGULATIONS

- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013. This safety data contains all information required under the regulations in Jordan.
- Malaysia List of Classified Substances: Acetonitrile is listed.



## SECTION 15: REGULATORY INFORMATION (Continued)

### 15.17 MEXICO: PERTINENT REGULATIONS

- NOM-018-STPS-2015] – Official Order Establishing the Globally Harmonized System of the Classification and Labelling of Chemicals: This safety data sheet is prepared in accordance with the requirements of Mexico.
- Mexican Inventory of Chemical Substances: Acetonitrile is listed.

### 15.18 MOLDOVA: PERTINENT REGULATIONS

- Government Decision No. 640 of 11-09-2024. This safety data sheet is prepared in accordance with the requirements of Mexico.
- Moldova Official List of Substances: Acetonitrile is listed.

### 15.19 NEW ZEALAND

- Hazardous Substances (Safety Data Sheets) Notice 2017, which was amended in 2020. This safety data sheet is prepared in accordance with the requirements of New Zealand.
- New Zealand Inventory of Chemicals (NZIoC): Acetonitrile is listed.

### 15.20 OMAN

- Ministerial Decision No. 248/97 (Requirements for Safety Data Sheets). This safety data sheet is prepared in accordance with the requirements of Oman.

### 15.21 QATAR, SAUDI ARABIA, AND UNITED ARAB EMIRATES: PERTINENT REGULATIONS

- Gulf Standardization Organization Technical Order 2654:2021 9 –The Global Harmonized System (GHS) in Gulf Cooperation Council (GCC) countries: This safety data sheet is prepared in accordance with the requirements of the Gulf States.

### 15.22 SERBIA: PERTINENT REGULATIONS

- Rulebook on the Contents of the Safety Data Sheet ("Official Gazette of the Republic of Serbia" No. 11/2024): This safety data sheet is prepared in accordance with the requirements of Singapore.

### 15.23 SINGAPORE: PERTINENT REGULATIONS

- Singapore Standard SS 586-3:2022 9 –Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods: This safety data sheet is prepared in accordance with the requirements of Singapore.
- Controlled Hazardous Substances List maintained by National Environment Agency: No product component is listed.
- Singapore Ozone-Depleting Substances List: No product component is listed.

### 15.24 SOUTH AFRICA: PERTINENT REGULATIONS

- Regulations for Hazardous Chemical Agents (RHCA) 2021, specifically in Regulation 14A: This safety data sheet is prepared in accordance with the requirements of South Africa.

### 15.25 SOUTH KOREA: PERTINENT REGULATIONS

- Public Notice No. 2016-19 9 – Standards for Classification and/or Labeling of Chemicals and for Materials Safety Data Sheets: This safety data sheet is prepared in accordance with the requirements of South Korea.
- Korean Existing Chemical Substances List: Acetonitrile is listed with number KE-10657.
- Korea Priority Existing Chemicals List (PEC): No component is listed.
- List of Toxic Chemical Substances: No component is listed.

### 15.26 SWITZERLAND: PERTINENT REGULATIONS

- Chemicals Ordinance (ChemO): This safety data sheet is prepared in accordance with the requirements of Switzerland.
- Youth Employment Protection Ordinance (SR 822.115): Young people in basic vocational education and training may only work with this product, if this is provided for in the respective education regulation in order to achieve the training objective, if the requirements of the education plan are fulfilled and the applicable age restrictions are observed. Young people who are not in basic vocational training may not work with this product. As young people, employees of both genders are considered up to 18 years of age. Maternity ordinance and Safety Ordinance (SR 822.111.52):
- Pregnant women and nursing mothers may only come into contact with this product during their work if it has been established on the basis of a risk assessment in accordance with Art. 63 ArGV 1 that there is no specific health risk to the mother and child or that this can be ruled out by taking suitable protective measures.
- Switzerland. Schedules 1A-3B on Substances Subject to ChKV, Regulation on the Control of Chemicals with Civilian and Military Use (ChKV): Not listed.

## SECTION 15: REGULATORY INFORMATION (Continued)

### 15.27 TAIWAN: PERTINENT REGULATIONS

- Regulations of Labelling and Communication of Hazardous Chemicals (Directive of the Executive Yuan Council of Labor Affairs, Labor Affairs No. 10302007861: This safety data sheet is prepared in accordance with the requirements of Taiwan.
- Chemical Substance Inventory in Taiwan, China (TCSI): Acetonitrile is listed.

### 15.28 THAILAND: PERTINENT REGULATIONS

- Hazard Classification and Communication System of Hazardous Substances B.E.2555 (2012): This safety data sheet has been prepared in accordance with Thai requirements.
- Thailand Existing Chemicals Inventory (TECI): Acetonitrile is listed.

### 15.29 TURKEY: PERTINENT REGULATIONS

- Annex 2 Kimyasalların Kaydı, Değerlendirilmesi, İzni ve Kısıtlanması" (KKDİK/Registration, Evaluation, Authorization and Restriction of Chemicals): This safety data sheet has been prepared in accordance with the requirements of Turkey.
- Chemical Inventory of Turkey per KKDİK: Acetonitrile is listed.

### 15.30 UNITED KINGDOM: PERTINENT REGULATIONS

- UK REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals): This safety data sheet has been prepared in accordance with the requirements of the United Kingdom.
- UK REACH: The substance is registered under UK REACH regulations: Acetonitrile is listed.

### 15.31 VIETNAM: PERTINENT REGULATIONS

- Circular No. 04/2012/TT-BCT and Decree No. 113/2017/ND-CP (Law on Chemicals 2007): This safety data sheet has been prepared in accordance with the requirements of Vietnam.
- List of Chemicals Subject to Compulsory Declarations in Vietnam: Acetonitrile is listed.

## SECTION 16: OTHER INFORMATION

### 16.1 INDICATION OF CHANGE

- DATE OF PREPARATION:** November 28, 2025
- SUPERCEDES:** Not applicable.
- CHANGE INDICATED:** New product.

### 16.2 DEFINITIONS

<u>SECTION</u>	<u>EXPLANATION OF TERMS/ABBREVIATIONS</u>
<b>ALL</b>	<b>EU:</b> European Union. <b>CLP:</b> Union Classification, Labelling, and Packaging of Substances and Mixtures
<b>3</b>	<b>CAS Number:</b> Chemical Abstract Service Number, used by the American Chemical Society to uniquely identify a chemical.
<b>8</b>	<b>OEL:</b> Occupational Exposure Limit. <b>ppm:</b> Parts per Million. <b>mg/m<sup>3</sup>:</b> Milligrams per cubic meter.
<b>9</b>	<b>pH:</b> Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, a pH value of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. <b>FLASH POINT:</b> Temperature at which a liquid generates enough flammable vapors so that ignition may occur. <b>AUTOIGNITION TEMPERATURE:</b> Temperature at which spontaneous ignition occurs. <b>LOWER EXPLOSIVE LIMIT (LEL):</b> The minimal concentration of flammable vapors in air which will sustain ignition. <b>UPPER EXPLOSIVE LIMIT (UEL):</b> The maximum concentration of flammable vapors in air which will sustain ignition.
<b>11</b>	<b>CARCINOGENICITY STATUS:</b> NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. <b>TOXICOLOGY DATA:</b> LDxx or LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designated route of administration. This value is used to assess the toxicity of chemical substances to humans. TDxx or TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designated route of administration.
<b>12</b>	<b>EC50:</b> Effect Concentration. <b>PBT or vPvB:</b> Persistent/ Bioaccumulative /Toxic; Very Persistent/ Very Bioaccumulative
<b>15</b>	<b>REACH:</b> European Union regulation concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals. <b>EINECS:</b> European Inventory of Existing Commercial Chemical Substances