

SAFETY DATA SHEET

This document is in compliance with requirements for Safety Data Sheets implemented under U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2024 and equivalent State Standards), guidelines from the United Nations Globally Harmonized System of Classification of Chemicals (GHS), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Hazardous Products Regulations (HPR), and the European Union regulation on the Classification, Labelling and Packaging of Substances and Mixtures (EC No. 1272/2008, EU 2020/878; EU 2024/2865). See section 16 for more information on national regulations.

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFICATION

- **PRODUCT NAME:** K₂CO₃
- **PRODUCT CODE:** 806-00027-00

1.2 PRODUCT USE AND RESTRICTIONS

- **IDENTIFIED USE:** Kit component for protein library preparation 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 (US OSHA, CANADIAN WHMIS, and EU CLP)

- Not classified as hazardous under pertinent national standards.

2.2 LABEL ELEMENTS (US OSHA, CANADIAN WHMIS, and EU CLP)

- **Hazard Pictograms:** Not applicable.
- **Signal Word:** Not applicable.
- **Hazard Statements:** Not applicable.
- **Precautionary Statements:** Not applicable.

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) ¹
Potassium Carbonate	584-08-7	Skin Corrosion/Irritation (Category 2); Serious Eye Damage/Eye Irritation (Category 2); Specific target organ toxicity (single exposure) (Category 3) Target Organs - Respiratory system.	1-9%
The components of this product do not contribute health or physical hazards at the concentrations present.			100%

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.
- 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:** May cause eye irritation upon prolonged exposure.
- Skin Contact:** May cause skin irritation upon prolonged exposure.
- Inhalation:** Not anticipated to be a potential route of 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.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- NFPA FLAMMABILITY CLASSIFICATION:**

SECTION 5: FIREFIGHTING MEASURES (Continued)

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

NFPA Rating:



NFPA Hazard Classification: Not classified.

5.3 UNUSUAL HAZARDS IN FIRE SITUATIONS

POTENTIAL HAZARD

Decomposition:

Incompatibilities:

Explosion Sensitivity to Mechanical Impact:

Explosion Sensitivity to Static Discharge:

DESCRIPTION FOR PRODUCT

Generates irritating vapors, carbon monoxide, carbon dioxide, and compounds containing sodium and potassium.

See Section 10 (Reactivity and Stability).

Not applicable.

Not applicable.

5.4 ADVICE FOR FIREFIGHTERS

- Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from 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 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 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.

SECTION 7: HANDLING AND STORAGE (Continued)

- **INCOMPATIBILITIES:** See Section 10 (Stability and Reactivity).

7.3 SPECIFIC END USES

- This product is for use in research and development laboratories by trained laboratory personnel.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

- **AIRBORNE EXPOSURE LIMITS:**
 - **U.S:** No airborne occupational exposure limits have been established.
 - **Canada:** No airborne occupational exposure limits have been established.
 - **EU:** No airborne occupational exposure limits have been established.
- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** None established.
- **DERIVED NO EFFECTS LEVEL:** None established.
- **PREDICTED NO EFFECT CONCENTRATION:** None established.

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 occurs. Eye wash stations and safety showers should be readily available.
- **RESPIRATORY PROTECTION:** None needed under normal circumstances of use.
- **HAND PROTECTION:** None typically needed for anticipated use. 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 recommended if splash or spray can occur during use (e.g., during refilling of unit).
- **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:**

<u>PROPERTY</u>	<u>DATA</u>
State:	Liquid
Color:	Colorless.
Odor:	Odorless
Odor Threshold:	Not determined
pH:	Not determined

- **PHYSICAL DATA:**

<u>PROPERTY</u>	<u>DATA</u>
Melting Point/Freezing Point:	Not determined.
Initial Boiling Point/Boiling Range:	Greater or equal to 100 °C (212 °F)
Flash Point:	Not applicable.
Evaporation Rate (Water = 1):	Approximately 1.0
Flammability:	Not applicable.
Upper/Lower Explosion Limits	Not applicable.
Vapor Pressure:	Less than or equal to 23 hPa (17.3 mmHg)
Vapor Density	Not determined.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

Relative Density at 20 °C (68 °F)	Approximately 1.20 g.cm ³ ; (10.04 lb./gal)
Solubility:	Totally miscible 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** This product is not classified under any physical hazard class.
- **Other Safety Characteristics** Not applicable

9.3 INFORMATION RELEVANT TO PHYSICAL HAZARD CLASSIFICATION

- **VOC content:** 0.00%; 0.0 g/L

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 and reducing agents, strong acids.

10.5 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include oxides of carbon and potassium, and irritating vapors.

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 components of this product contain the following toxicology data:

Potassium Carbonate

LD50 (Oral, rat) = 1,870 mg/kg

- **DEGREE OF IRRITATION:** This product is not anticipated to cause skin or eye irritation.
- **SENSITIZATION:** This product does not contain any compound reported to as a skin or respiratory 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:** May cause eye irritation upon prolonged exposure.
 - **Skin:** May cause skin irritation upon prolonged exposure.
 - **Inhalation:** Not anticipated to be a significant route of occupational exposure.
 - **Ingestion:** Not anticipated to be a significant 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.
- **ENDOCRINE-DISRUPTING PROPERTIES:** Not applicable.
- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL TOXICITY

- The product is not anticipated to be harmful to aquatic or terrestrial life..

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.

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.

13.2 DISPOSAL CONSIDERATIONS

- **EPA RCRA WASTE CODE:** Not applicable to wastes consisting only of this product.
- **SEWAGE DISPOSAL:** Waste should not be disposed of by release to sewers.

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:**

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION						

- **CANADIAN TRANSPORTATION INFORMATION:** This product is not regulated by Transport Canada as dangerous good under Canadian transportation standards.
- **EUROPEAN TRANSPORT CLASSIFICATION BY ROAD (ADR)/RAIL (RID):** Product is not regulated as a dangerous good.
- **IATA DESIGNATION:** Product is not regulated as a dangerous good by the International Air Transport Association.
- **IMO DESIGNATION:** Product is not regulated as a dangerous good by the International Maritime Organization.

14.2 ENVIRONMENTAL HAZARDS

- This product is not classified as a Marine Pollutant for the purposes of transportation.

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:** Potassium carbonate is listed with EINECS number 209-529-3. Contains no REACH Annex XIV substances. REACH (1907/2006). Contains no substance with REACH Restrictions.

15.2 EUROPEAN UNION CHEMICAL SAFETY ASSESSMENT

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

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):** Potassium carbonate is listed.

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.

SECTION 15: REGULATORY INFORMATION (Continued)

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 – Potassium carbonate is listed. This product is used for laboratory research and development purposes.

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: No component 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 – Not applicable.

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: No component 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): Potassium carbonate is listed.
- Industrial Safety and Health Law (ISHL) Inventory: No component is listed.
- Chemical Substance Control Law (CSCL) Inventory: No component is listed.

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: No component is listed.

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: Potassium carbonate is listed. This product is used for laboratory research and development purposes.

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: No component is listed.

SECTION 15: REGULATORY INFORMATION (Continued)

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): Potassium carbonate 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 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: Potassium carbonate is listed with KECL number KE-24170.
- Korea Priority Existing Chemicals List (PEC): Potassium carbonate is not listed.
- List of Toxic Chemical Substances: Potassium carbonate is not listed.

15.26 SWITZERLAND: PERTINENT REGULATIONS

- Chemicals Ordinance (ChemO): This safety data sheet is prepared in accordance with the requirements of Switzerland.
- Switzerland. Schedules 1A-3B on Substances Subject to ChKV, Regulation on the Control of Chemicals with Civilian and Military Use (ChKV): Not listed.

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): Potassium carbonate is listed. This product is used for laboratory research and development purposes.

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): Potassium carbonate is listed.. This product is used for laboratory research and development purposes.

15.29 TURKEY: PERTINENT REGULATIONS

- Annex 2 Kimyasalların Kaydı, Değerlendirilmesi, İzni ve Kısıtlanması" (KKDIK/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 KKDIK: Potassium carbonate is listed. This product is used for laboratory research and development purposes.

SECTION 15: REGULATORY INFORMATION (Continued)

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: Potassium carbonate is not 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: No component 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 HAZARDOUS MATERIALS SYSTEM RATING

Health	0	
Flammability	0	(Personal Protective Equipment Rating: Occupational Use situations: Refer to section 8 for guidance on the selection of personal production.
Physical Hazard	0	
Protective Equipment	*	

16.3 DEFINITIONS

SECTION EXPLANATION OF TERMS/ABBREVIATIONS

ALL	OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances. HCS: Hazard Communication Standard (U.S.). HPR: Hazardous Products Regulations (Canada). EU: European Union. CLP: Union Classification, Labelling and Packaging of Substances and Mixtures
3	CAS Number: Chemical Abstract Service Number, used by the American Chemical Society to uniquely identify a chemical.
5	NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (F.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: F.P. below 73°F and BP below 100°F. Class IB: F.P. below 73°F and BP at or above 100°F. Class IC: F.P. at or above 73°F and BP at or above 100°F. Class II: F.P. at or above 100°F and below 140°F. Class IIIA: F.P. at or above 140°F and below 200°F. Class IIIB: F.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters Blue = Health hazard; Red = Fire Hazard; Yellow = Reactivity Hazard. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
8	ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15-minute average, no more than 4 times daily and each exposure separated by one hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit; IDLH: Immediately Dangerous to Life and Health ppm: Parts per Million. mg/m³: Milligrams per cubic meter. BEI: Biological Exposure Limit. MAK: Maximum Concentration Values in the Workplace; AIHA WEEL: AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; OEL: Occupational Exposure Limit.
9	pH: 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. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition.

SECTION 16: OTHER INFORMATION (Continued)

- 11 CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. TOXICOLOGY DATA: 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 designate 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 designate route of administration.
- 12 EC50: Effect Concentration. PBT or vPvB: Persistent/ Bioaccumulative /Toxic; Very Persistent/ Very Bioaccumulative
- 13 RCRA: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. EPA RCRA Waste Codes: Defined in 40 CFR Section 261.
- 15 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act. SARA: Superfund Amendments and Reauthorization Act. TSCA: Toxic Substances Control Act. DSL/NDSL: Domestic Substances List/Non-Domestic Substances List. REACH: European Union regulation concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals.
- 16 HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.