

SAFETY DATA SHEET

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification: Lab Alley LLC
22111 Highway 71 West, Suite 601
Spicewood, Texas 78669
Tel.: 512-668-9918

24 Hour Emergency Telephone Number: Infotrac: 800-535-5053

Product Identifier: **POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)**

Trade Name: Potassium Carbonate Extra Fine; Potassium Carbonate Glass; Potassium Carbonate Dense Granular; Potassium Carbonate Fine; Potassium Carbonate Food Grade; Potassium Carbonate Extra Fine Food Grade

Synonyms: Pearlash; Potash; PotCarb

Product Use: Glass Production, Photographic, Detergents / soaps, Fertilizer *, Rubber products, Pharmaceuticals, Potassium Silicates, Food processing, Gas Treatment, Agricultural Chemicals, Cement, Catalysts, Food Additive

Uses Advised Against: None identified

Note: *Check with national and local regulatory agencies to determine status of use in a fertilizer application.

SECTION 2. HAZARDS IDENTIFICATION

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

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Supersedes Date: 03-2017-July

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EMERGENCY OVERVIEW:

Color: White
Physical State: Solid
Appearance: Free-flowing, Granular powder
Odor: Odorless

Signal Word: **WARNING**

MAJOR HEALTH HAZARDS: CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. HARMFUL IF SWALLOWED. MAY BE HARMFUL IF INHALED.

AQUATIC TOXICITY: HARMFUL TO AQUATIC LIFE. May increase pH of waterways and adversely affect aquatic life.

PRECAUTIONARY STATEMENTS: Avoid breathing dust, mist, or spray. Wash skin and contaminated clothing thoroughly after handling. Wear protective gloves, protective clothing, eye, and face protection. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Avoid release to the environment.

ADDITIONAL HAZARD INFORMATION: Potassium carbonate will dissolve in water forming liquid potassium carbonate, which is an irritating and corrosive material. Liquid potassium carbonate is corrosive to aluminum.

HAZARD CLASSIFICATION:

GHS: CONTACT HAZARD - SKIN:	Category 2 - Causes skin irritation
GHS: CONTACT HAZARD - EYE:	Category 2A - Causes serious eye irritation
GHS: ACUTE TOXICITY - ORAL:	Category 4 - Harmful if swallowed
GHS: TARGET ORGAN TOXICITY (SINGLE EXPOSURE):	Category 3 - May cause respiratory tract irritation
HAZARDOUS TO AQUATIC ENVIRONMENT - ACUTE HAZARD:	Category 3 - Harmful to aquatic life

GHS SYMBOL: Exclamation mark



GHS SIGNAL WORD: **WARNING**

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

GHS HAZARD STATEMENTS:

GHS - Health Hazard Statement(s)

- Causes serious eye irritation
- Causes skin irritation
- Harmful if swallowed
- May cause respiratory irritation

GHS - Environmental Hazard Statement(s)

- Harmful to aquatic life

GHS - Precautionary Statement(s) - Prevention

- Avoid breathing dust
- Wash skin and contaminated clothing thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Wear protective gloves, protective clothing, eye, and face protection
- Avoid release to the environment

GHS - Precautionary Statement(s) - Response

- IF SWALLOWED: Call a POISON CENTER OR LICENSED HEALTH CARE PROVIDER if you feel unwell
- Rinse mouth if ingested
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
- IF INHALED: Call a POISON CENTER OR LICENSED HEALTH CARE PROVIDER if you feel unwell
- IF ON SKIN: Wash with plenty of water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash it before reuse
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention

GHS - Precautionary Statement(s) - Storage

- Store in a well-ventilated place. Keep container tightly closed
- Store in a secure manner

GHS - Precautionary Statement(s) - Disposal

- Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

Hazards Not Otherwise Classified (HNOC) - GHS

None Known

Physical Hazards Not Otherwise Classified

- Liquid potassium carbonate is corrosive to aluminum

Health Hazards Not Otherwise Classified

- Potassium carbonate will dissolve in water forming liquid potassium carbonate, which is an irritating and corrosive material

Additional Hazard Information

Potassium carbonate will dissolve in water forming liquid potassium carbonate, which is an irritating and corrosive material. Liquid potassium carbonate is corrosive to aluminum

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

See Section 11: TOXICOLOGICAL INFORMATION

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym(s) for Product: Pearlash; Potash; PotCarb

Component	Percent [%]	CAS Number
Potassium Carbonate	98.5-100	584-08-7

SECTION 4. FIRST AID MEASURES

INHALATION: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER OR LICENSED HEALTH CARE PROVIDER if you feel unwell.

SKIN CONTACT: Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.

EYE CONTACT: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

INGESTION: IF SWALLOWED: Call a POISON CENTER OR LICENSED HEALTH CARE PROVIDER if you feel unwell. Rinse mouth if ingested.

Most Important Symptoms/Effects (Acute and Delayed):

Acute Symptoms/Effects:

Inhalation (Breathing): Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

Skin: Skin Irritation: Exposure to skin may cause redness, or irritation.

Eye: Eye Irritation: Exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately.

Ingestion (Swallowing): Gastrointestinal System Effects: Slightly toxic on ingestion. May be severely irritating to gastrointestinal tract possibly causing oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death.

Delayed Symptoms/Effects:

- Repeated or prolonged contact may result in dermatitis

Interaction with Other Chemicals Which Enhance Toxicity: None known.

Medical Conditions Aggravated by Exposure: May aggravate preexisting conditions, such as: eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin.

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

Protection of First-Aiders: Avoid contact with skin and eyes. Do not breathe dust. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

Notes to Physician: Treatment is based upon symptomatic and supportive care.

SECTION 5. FIRE-FIGHTING MEASURES

Fire Hazard: Negligible fire hazard.

Extinguishing Media: Use extinguishing medium as appropriate for surrounding fire

Fire Fighting: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Hazardous Combustion Products: Oxides of carbon, Potassium oxides

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Lower Flammability Level (air): Not flammable

Upper Flammability Level (air): Not flammable

Flash point: Not flammable

Auto-ignition Temperature: No information available

Physical Hazards Not Otherwise Classified

- Liquid potassium carbonate is corrosive to aluminum

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin and eyes. Avoid breathing dust. Avoid dust formation. Wash thoroughly after handling. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS.

Environmental Precautions:

This material is harmful to aquatic life. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

Methods and Materials for Containment and Cleaning Up:

Shovel dry material into suitable container. Flush spill area with water, if appropriate.

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

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SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid contact with skin and eyes. Avoid creation of dust. Avoid breathing dust. When using, do not eat, drink or smoke. Wash thoroughly after handling. Do not reuse containers. Use only in well-ventilated areas.

Safe Storage Conditions:

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Granular material is slightly hygroscopic; ground material is very hygroscopic. Store in a cool, dry area. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

Incompatibilities/ Materials to Avoid:

Acids, Lime, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

Additional Information: Potassium carbonate will dissolve in water forming liquid potassium carbonate, which is an irritating and corrosive material. Liquid potassium carbonate is corrosive to aluminum.

Physical Hazards Not Otherwise Classified

- Liquid potassium carbonate is corrosive to aluminum

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

REGULATORY EXPOSURE LIMIT(S):

No occupational exposure limits have been established at this time.

NON-REGULATORY EXPOSURE LIMIT(S):

A manufacturer's advisory exposure limit for Potassium Carbonate of 10 mg/m³ (as a Ceiling Limit) is recommended based on the European Union (EU) Derived No-Effect Level (DNEL) for Potassium Carbonate (10mg/m³), when a regulatory exposure limit is not available. EU REACH (Annex I, 1.0.1) defines the DNEL as "the level of exposure above which humans should not be exposed".

ENGINEERING CONTROLS: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear protective clothing to minimize skin contact. When potential for contact with dry

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®. Contaminated clothing should be removed and laundered before reuse.

Hand Protection: Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

Protective Material Types:

Butyl rubber, Natural rubber, Neoprene, Nitrile

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. When an air purifying respirator is not adequate for spills and/or emergencies of unknown concentrations, an approved self-contained breathing apparatus operated in the pressure demand mode is required. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practices. Good hygiene practices include but are not limited to: wearing suitable gloves and/or eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Free-flowing, Granular powder
Color:	White
Odor:	Odorless
Odor Threshold [ppm]:	Not applicable. No odor warning properties.
Molecular Weight:	138.21
Molecular Formula:	K ₂ CO ₃
Decomposition Temperature:	212 - 392 °F (100 - 200 °C)
Boiling Point/Range:	Not applicable to solids
Freezing Point/Range:	Not applicable to solids.
Melting Point/Range:	1636 °F (891 °C)
Vapor Pressure:	Not applicable
Vapor Density (air=1):	Not applicable
Relative Density/Specific Gravity (water=1):	2.428 @ 19 (°C)
Density:	1201 - 1330 g/L (granular); 560 - 625 g/L (ground) @ 20 °C
Bulk Density:	75-83 lb/ft ³ (granular; 35-39 lb/ft ³ (ground) @ 20 °C
Water Solubility:	100%
pH:	moderately basic in solution
Volatility:	Not applicable
Evaporation Rate (ether=1):	Not applicable
Partition Coefficient (n-octanol/water):	Not applicable
Flash point:	Not flammable

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

Flammability (solid, gas):	Not flammable
Lower Flammability Level (air):	Not flammable
Upper Flammability Level (air):	Not flammable
Auto-ignition Temperature:	No information available
Viscosity:	Not applicable
Hygroscopic:	Yes

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and pressures.

Reactivity: Not reactive under normal temperatures and pressures.

Possibility of Hazardous Reactions: Avoid contact with lime to prevent formation of corrosive potassium hydroxide (KOH).

Conditions to Avoid:

- (e.g., static discharge, shock, or vibration) -
- None known

Incompatibilities/ Materials to Avoid: Acids; Lime; Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

Hazardous Decomposition Products: Carbon oxides, Potassium oxides

Hazardous Polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

PRODUCT TOXICITY DATA: POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

LD50 Oral: 1,870 mg/kg (Rat)	LD50 Dermal: >2000 mg/kg (Rabbit)	LC50 Inhalation: > 4.96 mg/l (rat/4.5 hour)
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POTENTIAL HEALTH EFFECTS:

Eye contact: Eye exposure may cause severe irritation and redness to the eye lids, conjunctiva. Untreated, prolonged eye contact can cause permanent and severe eye damage.

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

Skin contact:	Exposure to skin may cause redness, irritation. This material is not a skin sensitizer based on studies with guinea pigs.
Inhalation:	Inhalation of this material may cause upper airway irritation, cough, redness of mouth and upper airways.
Ingestion:	Ingestion of this material may cause oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingesting large quantities may cause ulceration, vomiting, shock, and death.
Chronic Effects:	Repeated or prolonged contact may result in dermatitis.

SIGNS AND SYMPTOMS OF EXPOSURE:

Inhalation (Breathing): Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

Skin: Skin Irritation: Exposure to skin may cause redness, or irritation.

Eye: Eye Irritation: Exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately.

Ingestion (Swallowing): Gastrointestinal System Effects: Slightly toxic on ingestion. May be severely irritating to gastrointestinal tract possibly causing oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death.

ACUTE TOXICITY:

- This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction

Interaction with Other Chemicals Which Enhance Toxicity: None known.

GHS HEALTH HAZARDS:

GHS: ACUTE TOXICITY - ORAL: Category 4 - Harmful if swallowed.

GHS: ACUTE TOXICITY - INHALATION: Category 5 - May be harmful if inhaled.

GHS: CONTACT HAZARD - EYE: Category 2A - Causes serious eye irritation

GHS: CONTACT HAZARD - SKIN: Category 2 - Causes skin irritation.

Skin Absorbent / Dermal Route: NO.

CARCINOGENICITY COMMENT:

This product is not classified as a carcinogen by NTP, IARC or OSHA. Not classified as a carcinogen per GHS criteria.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):

Category 3 - Respiratory Tract Irritation

MUTAGENIC DATA:

Not classified as a mutagen per GHS criteria. Tested negative in test systems evaluated.

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

REPRODUCTIVE TOXICITY:

Not classified as a reproductive toxin per GHS criteria.

DEVELOPMENTAL TOXICITY:

Not classified as a developmental or reproductive toxin per GHS criteria. No discernable effects on maternal or fetal survival were observed in animal studies.

Health Hazards Not Otherwise Classified

- Potassium carbonate will dissolve in water forming liquid potassium carbonate, which is an irritating and corrosive material

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Fish Toxicity:

LC50 Bluegill sunfish: 230 mg/L (96 hour)
LC50 Rainbow trout: 68 mg/L (96 hour)
LC50 Fathead minnow: 940 mg/L (24 hour)
LC50 Fathead minnow: 820 mg/L (48 hour)
LC50 Fathead minnow: <510 mg/L (96 hour)

Invertebrate Toxicity:

EC50 Daphnia magna: 430 mg/L (48 hour) - hard water
EC50 Daphnia pulex: 200 mg/L (48 hour) - soft water

FATE AND TRANSPORT:

BIODEGRADATION: This material is inorganic and not subject to biodegradation.

PERSISTENCE: This material is believed not to persist in the environment.

BIOACCUMULATIVE POTENTIAL: This material is believed not to bioaccumulate

Potassium carbonate is very soluble in water. Therefore the substance does not accumulate in lipophilic tissues of living organisms

ADDITIONAL ECOLOGICAL INFORMATION: This material is harmful to aquatic life. May increase pH of waterways and adversely affect aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from material:

Reuse or reprocess, if possible. May be subject to disposal regulations. Measure the pH of solutions to determine disposal restrictions. Dispose in accordance with all applicable regulations.

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

Container Management:

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

SECTION 14. TRANSPORT INFORMATION

LAND TRANSPORT

U.S. DOT 49 CFR 172.101:

Status: Not Regulated.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

Status: Not Regulated.

MARITIME TRANSPORT (IMO / IMDG) Not regulated

Status - IMO / IMDG: Not Regulated

SECTION 15. REGULATORY INFORMATION

U.S. REGULATIONS

OSHA REGULATORY STATUS:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

Not regulated.

SARA EHS Chemical (40 CFR 355.30)

Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):

Acute Health Hazard

SARA HAZARD CATEGORIES ALIGNED WITH GHS (2018):

Health Hazard - Acute Toxin

Health Hazard - Skin Corrosive / Irritant

Health Hazard - Eye Corrosive / Irritant

Health Hazard - Specific Target Organ Toxicity (STOT) Single Exposure (SE)

EPCRA SECTION 313 (40 CFR 372.65):

Not regulated

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

DEPARTMENT OF HOMELAND SECURITY (DHS)- Chemical Facility Anti-Terrorism Standards (6 CFR 27):

No components in this material are regulated under DHS

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):

Not regulated

FDA: This material has Generally Recognized As Safe (GRAS) status under specific U.S. Food and Drug Administration (FDA) regulations. Additional information is available from the Code of Federal Regulations which is accessible on the FDA's website. Only food grade product is guaranteed to be produced under all current Good Manufacturing Practices (cGMP) requirements as defined by the FDA. Food grade product is produced in a facility that is accredited as a Safe Quality Food (SQF) Level 2 Facility, certified under the Global Food Safety Initiative (GFSI), and meets the Food Chemical Codex (FCC) requirements.

EPA'S CLEAN WATER AND CLEAN AIR ACTS:

Component(s) not listed on impacted regulatory lists

NATIONAL INVENTORY STATUS

Component	TSCA Inventory	TSCA 12(b)	TSCA - Section 4	TSCA - Section 5	TSCA - Section 6	TSCA - Section 8	TSCA - 8(a) PAIR	TSCA - 8(d) IUR	TSCA - 8(a) CAIR
584-08-7	Listed	Not Listed	Not listed	Not Listed	Not listed	Not listed	Not listed	Not listed	Not listed

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

TSCA 12(b): This product is not subject to export notification.

Canadian Chemical Inventory: All components of this product are listed on either the DSL or the NDSL.

Component	DSL	NDSL
Potassium Carbonate 584-08-7	Listed	Not Listed

STATE REGULATIONS

California Proposition 65:

This product is not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. For additional information, contact OxyChem Technical Services at 1-800-733-1165.

CANADIAN REGULATIONS

• This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

Component	Canada - CEPA - Schedule I - List of Toxic Substances	Canada - NPRI	Canada - CEPA - 2010 Greenhouse Gases (GHG) Subject to Mandatory Reporting	Canadian Chemical Inventory:	NDSL:
Potassium Carbonate	Not listed	Not Listed	Not Listed	Listed	Not Listed

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 11/27/23

Supersedes Date: 03-2017-July

WHMIS - Classifications of Substances:

• D2B - Poisonous and Infectious Material; Materials causing other toxic effects - Toxic material

SECTION 16. OTHER INFORMATION

Prepared by: Lab Alley LLC

Rev. Date: 11/27/23

Reason for Revision:

- Removed exposure level that was not applicable: SEE SECTION 8
- Modified Advisory Exposure Level to reference EU DNEL value: SEE SECTION 8
- Modified SARA Hazard Categories Aligned with GHS (2018): SEE SECTION 15
- Revised Preparer Information: SEE SECTION 16

IMPORTANT:

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and Lab Alley LLC assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any federal, state, local or foreign laws.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

End of Safety Data Sheet