



SAFETY DATA SHEET

SDS NUMBER: 195
CURRENT ISSUE DATE: January, 2022
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POTASSIUM CARBONATE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Potassium Carbonate

OTHER/GENERIC NAMES: Dipotassium carbonate, Carbonic acid dipotassium salt

PRODUCT USE AND RESTRICTIONS ON USE: Chemical intermediate.

SUPPLIER: Esseco USA LLC
4 Gatehall Drive
Parsippany, NJ 07054

FOR MORE INFORMATION CALL: 973-267-3330
(Monday-Friday, 9:00am-4:30pm)

FOR EMERGENCY IN USA, CALL CHEMTREC: 800-424-9300
(24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

GHS Classification

Eye Irritant Category 2
Specific Target Organ Toxicity Single Exposure Category 3 (Irritant)

Label Elements:



WARNING!

Causes serious eye irritation.
May cause respiratory irritation.

Avoid breathing dust.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear eye protection.
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.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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Call a POISON CENTER or doctor if you feel unwell.
Store in well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents and container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Potassium Carbonate	584-08-7	≥97

Trace impurities and additional material names not listed above may appear in Section 15 of this SDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons. The exact concentrations are a trade secret.

4. FIRST AID MEASURES

SKIN:	Wash skin with plenty of soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation occurs.
EYES:	Immediately flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation persists.
INHALATION:	Remove to fresh air. If breathing is difficult, give oxygen, provided a qualified operator is available. Get medical attention if irritation persists.
INGESTION:	Rinse with water and give 1 glass of water or milk to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms develop.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:	May cause moderate eye and respiratory tract irritation.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED:	Immediate medical attention should not be required. Treat symptomatically.

5. FIRE FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:

Material is not flammable. Use extinguishing media appropriate for material in surrounding fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Thermal decomposition will generate toxic fumes of potassium oxide.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTING:

Wear NIOSH-approved self-contained breathing apparatus to protect against any release of toxic and/or irritating fumes. Use water-spray to keep fire-exposed containers cool, and to knock down vapors and gases.



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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Ventilate the area. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS: Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Promptly shovel or sweep up material with minimum dusting and shovel into an empty container with a cover. Clean spill area with plenty of water.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: (See section 8 for recommended personal protective equipment.)
Avoid contact with skin, eyes and clothing. Do not breathe dust. Use with adequate ventilation. Wash thoroughly after handling.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container closed when not in use and protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER LIMIT</u>
Potassium Carbonate	None	None	None

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:
None

APPROPRIATE ENGINEERING CONTROLS:
Provide local exhaust if dusty conditions exist or if there is a release of potassium oxide. Keep incompatible materials out of hoods, ducts, etc.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION: For handling dry material, wear rubber gloves and full work clothing, including long-sleeved shirt and trousers. When handling solutions and there is prolonged or repeated contact, wear impervious gloves, clothing and boots.

EYE PROTECTION: Wear chemical safety goggles.



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RESPIRATORY PROTECTION: Where required, use a NIOSH-approved respirator for dust and /or potassium oxide, as conditions indicate. Some exposures may require a NIOSH-approved self-contained breathing apparatus or supplied-air respirator. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice.

ADDITIONAL RECOMMENDATIONS: Eyewash and safety shower are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White granules or crystals.	
PHYSICAL STATE:	Solid.	
ODOR:	Odorless	
ODOR THRESHOLD:	Not determined.	
MOLECULAR WEIGHT:	138.21	
CHEMICAL FORMULA:	CO ₃ ·K ₂	
RELATIVE DENSITY (water = 1.0):	2.29 g/cu cm	
SOLUBILITY IN WATER (weight %):	111g/100g @ 25° C (77° F)	
pH:	Not determined	
INITIAL BOILING POINT/RANGE:	Not applicable.	
MELTING/FREEZING POINT:	891° C (1635.8° F)	
VAPOR PRESSURE:	Not applicable.	
VAPOR DENSITY (air = 1.0):	Not applicable.	
EVAPORATION RATE:	Not applicable.	COMPARED TO: Not applicable.
% VOLATILES:	Not applicable.	
PARTITION COEFFICIENT (N-OCTANOL/WATER):	Not determined.	
VISCOSITY:	Not applicable.	
FLASH POINT:	Not flammable.	
FLASH POINT METHOD:	Not applicable.	
AUTOIGNITION TEMPERATURE:	Not applicable.	
UPPER FLAME LIMIT (volume % in air):	Not applicable.	
LOWER FLAME LIMIT (volume % in air):	Not applicable.	
DECOMPOSITION TEMPERATURE:	Not determined.	
FLAMMABILITY (SOLID, GAS)	Not flammable.	
OSHA FLAMMABILITY CLASS:	Not applicable.	

10. STABILITY AND REACTIVITY

REACTIVITY:
Not normally reactive

CHEMICAL STABILITY:
Normally stable.

POSSIBILITY OF HAZARDOUS REACTIONS:
Potassium carbonate combined with chlorine trifluoride may result in a violent reaction.

CONDITIONS TO AVOID:
Avoid elevated temperatures.

INCOMPATIBILITIES:
Chlorine trifluoride and magnesium.



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HAZARDOUS DECOMPOSITION PRODUCTS:
Potassium oxide.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH HAZARDS

ACUTE EFFECTS OF EXPOSURE:

- SKIN:** Dust, solutions or mist may cause skin irritation from repeated or prolonged contact.
- EYES:** Dust, solutions or mist may moderate irritation to the eyes.
- INHALATION:** Inhalation of product dust or mist may cause moderate irritation to the respiratory tract.
- INGESTION:** Ingestion may cause irritation of the gastrointestinal tract and purging, if a large quantity is ingested. Relatively low in acute toxicity.
- CHRONIC EFFECTS:** None known.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>
No ingredients listed in this section.	----	----	----

NUMERICAL MEASURES OF TOXICITY:

Immediate (Acute) Effects:

Potassium Carbonate - LD₅₀ (oral, rat) = >2000 mg/kg, LC₅₀ (Inhalation, rat) = >4.96 mg/L (no mortality), LD₅₀ (skin, rabbit) = >2000 mg/kg

Delayed (Subchronic and Chronic) Effects:
Data not available.

Other Data:

Moderate skin irritation occurred on abraded rabbit skin but no irritation was seen on intact rabbit skin.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

The following ecotoxicity data is available for Potassium Carbonate:
Oncorhynchus mykiss LC50 96 hrs 68 mg/l

PERSISTENCE AND DEGRADABILITY:
No data available

BIOACCUMULATIVE POTENTIAL:
No data available

MOBILITY IN SOIL:
No data available



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OTHER ADVERSE EFFECTS:
No data available.

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID number is: Not applicable.

OTHER DISPOSAL CONSIDERATIONS:

Dispose of in accordance with applicable Federal, State and Local regulations.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: Not regulated.
US DOT ID NUMBER: Not applicable.
PROPER SHIPPING NAME: Not applicable.

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: All components are listed on TSCA Inventory of Chemical Substances.
OTHER TSCA ISSUES: None.

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<u>INGREDIENT NAME</u>	<u>SARA/CERCLA RQ (lb)</u>	<u>SARA EHS TPQ (lb)</u>
None	----	----

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee. Many states have more stringent regulations. Report all spills in accordance with local, state and federal regulations.

SECTION 311 HAZARD CLASS: See OSHA Hazard Classification in Section 2.

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

<u>INGREDIENT NAME</u>	<u>COMMENT</u>
No ingredients listed in this section.	----



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STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

<u>INGREDIENT NAME</u>	<u>WEIGHT %</u>	<u>COMMENT</u>
No ingredients listed in this section.	----	----

CALIFORNIA PROPOSITION 65

This product does not contain any ingredients known to the State of California to cause cancer and/or reproductive harm.

ADDITIONAL REGULATORY INFORMATION:

None

FOREIGN CHEMICAL CONTROL INVENTORY STATUS:

Listed on Canadian DSL, Australian AICS, Phillipines PICCS, Chinese IECSC, Japanese MITI, Korean KECL, and EU EINECS.

16. OTHER INFORMATION

CURRENT ISSUE DATE: January, 2022
PREVIOUS ISSUE DATE: April, 2017

CHANGES TO SDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

Comprehensive review.

OTHER INFORMATION: None.

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