



SAFETY DATA SHEET

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CURRENT ISSUE DATE: February, 2025
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Potassium Bicarbonate

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Potassium Bicarbonate

OTHER/GENERIC NAMES: Potassium hydrogen carbonate

PRODUCT USE AND RESTRICTIONS ON USE: Chemical intermediate.

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

MANUFACTURER: Esseco srl
Via S. Cassiano, 99 San Martino 28069
Trecate (NO) Italia

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

Not Classified as Hazardous

Label Elements:

None Required

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Potassium Bicarbonate	298-14-6	≥98

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. Get medical attention if irritation persists. Launder contaminated clothing before reuse.

EYES: Gently flush eyes with water for several minutes. Remove contact lenses if present if you can do so easily and continue flushing. Do not rub eyes. Get medical attention if irritation occurs and persists.



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INHALATION:	Remove to fresh air. Get medical attention if irritation or other symptoms develop.
INGESTION:	Rinse mouth with water and give 1 glass of water 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 skin irritation. Inhalation of dust may cause respiratory tract irritation. May cause mechanical irritation to eyes. Rubbing may cause damage to conjunctiva.
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:

Decomposition includes release of oxides of carbon and potassium compounds.

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.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: 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 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 acids and oxidizing agents. Keep container closed when not in use and protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION





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EXPOSURE GUIDELINES

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

APPROPRIATE ENGINEERING CONTROLS:

Local exhaust if dusty conditions exist or if there is a release of sulfur dioxide gas. Do not use in unventilated spaces, e.g., the holds of fishing boats, walk-in coolers or confined spaces.

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 glasses/goggles.

RESPIRATORY PROTECTION: Where required, use a NIOSH-approved respirator for dust, as conditions indicate. If sulfur dioxide should be released, use 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 or colorless granules or crystals.		
PHYSICAL STATE:	Solid.		
COLOR:	White or colorless		
ODOR:	Odorless.		
ODOR THRESHOLD:	Not determined.		
MOLECULAR WEIGHT:	100.115		
CHEMICAL FORMULA:	KHCO ₃		
RELATIVE DENSITY (water = 1.0):	2.17		
SOLUBILITY IN WATER (weight %):	Not determined.		
pH:	8.2 (@ 0.1 M solution)		
INITIAL BOILING POINT/RANGE:	Not applicable.		
MELTING/FREEZING POINT:	Decomposes		
VAPOR PRESSURE:	Not applicable.		
RELATIVE 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.		
KINEMATIC VISCOSITY:	Not applicable.		
FLASH POINT:	Not applicable.		
FLASH POINT METHOD:	Not applicable.		





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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.
PARTICLE CHARACTERISTICS:	Not applicable

10. STABILITY AND REACTIVITY

REACTIVITY:

Not normally reactive

CHEMICAL STABILITY:

Normally stable.

POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization with not occur.

CONDITIONS TO AVOID:

Avoid elevated temperatures.

INCOMPATIBILITIES:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon and sulfur.

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 irritate or burn the eyes and cause temporary conjunctivitis. Rubbing may cause damage to the conjunctiva that does not reverse.

INHALATION: Inhalation of product dust or mist may irritate 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.	----	----	----





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NUMERICAL MEASURES OF TOXICITY:

Immediate (Acute) Effects:

Potassium Bicarbonate: Oral rat LD50 >2000 mg/kg; Dermal rat LD50 >2000 mg/kg; Inhalation rat LC50 2880 mg/m³ (dust; no toxicity at highest concentration achievable in air)

Delayed (Subchronic and Chronic) Effects:

None known

Other Data:

None

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Potassium Bicarbonate: Rainbow Trou LC50 1300 mg/L/96h; Daphnia magna EC50 650 mg/kg/48h

PERSISTENCE AND DEGRADABILITY:

No data available

BIOACCUMULATIVE POTENTIAL:

No data available

MOBILITY IN SOIL:

No data available

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



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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>
No ingredients listed in this section.	----	----

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.	----

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, Philippines PICCS, Chinese IECSC, Japanese MITI, Korean KECL, and EU EINECS.

16. OTHER INFORMATION

CURRENT ISSUE DATE: February, 2025
PREVIOUS ISSUE DATE: --

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

New SDS.

OTHER INFORMATION: None.





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