

MARCH 26, 2026



POTASSIUM BICARBONATE **FFQ**
FOOD GRADE
DATA PACKAGE

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Letter to Our Customers

Dear Valued Customer,

Over the past few years, Esseco USA has received a significant increase in the number of questionnaires, surveys, and document requests from our customers.

Most of these requests focus on the same product, manufacturing, quality, and safety issues.

Moving forward, we will be unable to complete each customer's specific documentation requests.

In order to respond to all of these varied types of requests, Esseco USA has generated a comprehensive product specific Data Package (Data Pack) that will provide most if not all of the requested information.

We are confident that this Data Pack will ensure that consistent information is provided in a timely and efficient manner. The Data Pack is updated annually to ensure all data is accurate, and additionally the Data Pack will be updated in reaction to major regulatory changes.

Sincerely



Esseco USA Technical Services

All statements, information, and data given herein are believed to be accurate and reliable but are presented without guaranty, warranty, or responsibility of any kind, express or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. All suggestions made herein are intended for use by persons having requisite knowledge and skill, and are to be utilized at their own risk. Esseco USA assumes no responsibility for this information, and potential purchasers waive all claims they may have and agree to indemnify and hold harmless Esseco USA from any claims or damages they may later allege relative to their reliance upon these suggestions.

General

Product

Name	Potassium Bicarbonate
Code	1KB03E

Supplier

Name	Esseco USA
Address	4 Gatehall Drive, Parsippany, NJ 07054
Phone	973-267-3330
Internet	https://www.essecousa.com/

Manufacturer

Name	Esseco Srl
Address	Via San Cassiano 99, San Martino di Trecate, Novara 28069, Italy
Phone	+39 0321 7901
Internet	www.esseco.com/en/
Country of Origin	Italy

Products Details

General Information

- Potassium Bicarbonate is manufactured with inorganic raw materials(No plants or organic materials) and is therefore considered a synthetic product

Product References

- CAS No. (Chemical Abstracts Service): 298-14-6
- EINECS (European Inventory of Existing Commercial Chemical Substances): 206-059-0
- E No. (EU number for additives): E501 (ii)
- REACH (Registration, Evaluation, Authorization of Chemicals): registration number 01-2119532640-48-0007

Storage

- Store the product in a cool and dry indoor location, s, away from direct heat or sunlight. Product decomposes, developing carbon dioxide and water vapor, if exposure to high temperature (100°C and over).
- Shelf-life is 2 years from date of manufacture when stored in original container

Compliance

- Regulation (EU) No 231/2012 (food additives)
- FCC XIII (2022)

Packaging

- The packaging used for the Potassium Bicarbonate Food Grade sold by Esseco USA is suitable for food contact, this includes both 50 lb bags and various supersack sizes.
- All the Potassium Bicarbonate sold by Esseco USA is produced by Esseco srl in Italy and is packaged on pallets that have been heat treated and made from European wood. No fungicides including 2,4,6 tribromophenol (TBP) or 2,4,6 trichlorophenol (TCP) are used on any pallets for this product.
- All the Potassium Bicarbonate that is sold in 50 lb bags by Esseco USA has gone through a metal detection device when it was packaged by Esseco Srl in Trecate, Italy.

Contaminants

- The Potassium Bicarbonate Food Grade sold by Esseco USA meets all of the product specification requirements. The product may at times contain very small quantities of off-color yellow, gray, brown, or black particulates. These particulate contaminants are technically unavoidable due to current raw materials, equipment, and manufacturing technology utilized to produce and package the product.

Residual

- The Potassium Bicarbonate Food Grade sold by Esseco USA does not contain any of the solvents listed in the United States Pharmacopeia general chapter <467> (Class 1, Class 2,

Class 3, or other Table 4), the European Pharmacopeia, or the International Conference on Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Consumption (ICH) Residual Solvent (OVI) Lists. In addition, it does not contain any other organic solvents.

Cosmetics

- The Potassium Bicarbonate Food Grade sold by Esseco USA does not contain any of the substances which have been classified as carcinogenic, mutagenic or toxic for reproduction (CMR) of category 1A, category 1B or category 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008 (CMR substances).
- The Potassium Bicarbonate Food Grade sold by Esseco USA complies with Cosmetic Regulation (EC) No 1223/2009.
- The Potassium Bicarbonate Food Grade sold by Esseco USA does not contain any added fragrances.

BSE/TSE/GMO

- This is to certify that the Potassium Bicarbonate Food Grade sold by Esseco USA does not contain any materials that are of organic or animal origin. In addition, it does not come in contact with materials of organic or animal origin in its manufacture. Therefore, it is BSE / TSE compliant and contains no Genetically Modified Organisms (GMO's).

Composition

Component	Percent	CAS Number
Potassium Bicarbonate	98	298-14-6
Total:	100.0	

Manufacturing

Site Information

- Size of Site 1,800,000 sq ft
- Total Employees 230 (approx)
- Production Staff 155 (approx)
- Quality Unit Staff 8
- Quality Assurance Staff 4

Process

- The Potassium Bicarbonate food grade is manufactured using a synthetic process.
- This is a continuous process in a closed and dedicated plant by reaction of carbon dioxide and potassium hydroxide; crystallization and drying of the salt.
- Process is controlled by a completely automatic system with periodic IPCs performed by the operators.
- The product is packaged in a closed and dedicated line, equipped with a metal detector (sensitivity: 2.5 mm of ferrous, non-ferrous, and stainless steel).
- Entire production complies with GMP requirements defined in Food Chemical Codex and International Pharmaceutical Excipients Council.

Manufacturing Information

- The product is not treated with ionizing radiation during the production process and is not treated with any ingredient treated with ionizing radiation.
- The product is manufactured using current Good Manufacturing Practices (cGMP).

Quality System

- The plant maintains a FSSC 22000 Certification from Global Food Safety Initiative(GFSI).
- The plant maintains an ISO 9001:2015 Certification.
- The plant has an FDA registration number of 10290799032.

Lot Numbering System

The weekly lot code consists of YEAR (XX) – WEEK (YY) – PRODUCT (ZZ) – PLANT (WW).

- First block (YEAR – XX) = two-digit year of manufacture.
- Second block (WEEK – YY) = two-digit production week number.
- Third block (PRODUCT – ZZ) = manufacturer-assigned product code.
- Fourth block (PLANT – WW) = manufacturer-assigned plant code.

Example: 26040201

- 26 = year 2026
- 04 = Week 04 of the year
- 02 = Product code: Sodium Sulfite
- 01 = line Code/Plant code: San Martino di Trecate (NO)

Products Not Used in Manufacturing of Product

This product does not contain and hasn't been in contact with the following:

POTASSIUM BICARBONATE FOOD GRADE DATA PACKAGE

- Aldehydes
- Bioengineered Ingredients (GMOs)
- Bisphenol A
- Bromate
- Diacetyl
- Dioxin
- Ethylene Oxide
- Formaldehyde
- Graphite
- Halogenate chemicals
- Jatropha Plant
- Latex
- Melamine
- Metal Catalysts
- Mycotoxins
- Nanometals
- Nitrosamines
- Nonylphenol ethoxylates or alkylphenols
- Palm oil or palm oil derivatives
- Parabens – Butylparben or Propylparaben
- Partially hydrogenated oils
- Polychlorinated biphenyl or Polybrominated biphenyl
- Perfluoroalkyl and Polyfluoroalkyl
- Perfluorohexane sulfonic acid
- Pesticides
- Phenols
- Phthalates or esters
- Residual Solvents (US & Europe Pharmacopeia Listings)
- Quaternary ammonium compounds
- Sewage Sludge
- Toluene
- Triclosan
- VOC

Additional Site Information

- Pest activity is checked 12 times per year by specialized external firm (Rentokil Srl).

Food Information

Food Information

- This product is a substance that is generally recognized as safe (GRAS) per Title 21 of the Code of Federal Regulations Part 184.1613.
- The product is in compliance with all Kosher requirements.
- The product is in compliance with all Halal requirements.
- The product does not contain any ingredients of animal origin or alcohol. Furthermore we can exclude any risk of environmental contamination during manufacture, filling, packing, transportation and storage.
- The Potassium Bicarbonate Food Grade sold by Esseco USA meets all of the requirements of the US Food and Drug Administration (FDA) Food Safety Modernization Act (FSMA).
- Esseco USA is the importer of record for the Potassium Bicarbonate Food Grade sold by Esseco USA and has taken all of the necessary steps to be compliant with the United States Food and Drug Administration's Foreign Supplier Verification Program (FSVP) for importers of food for humans and animals.

Diet Suitability

The product is suitable for:

- Vegans
- Lacto / Ovo-lacto vegetarians
- Diabetics
- Lactose intolerants
- Celiacs

Microbiological

The Potassium Bicarbonate sold by Esseco USA is an **inorganic salt**; we do not expect any **developing risk of microorganisms and micotoxins formation or contamination**. The product will not support growth of the following:

- Aflatoxins
- Mycotoxins
- Pathogens

Nutritional Value

Constituents (per 100 gm)	Unit	Quantity
Alcohol	gm	zero
Ash	gm	47.0
Biotin	mg	zero
Calcium	mg	trace
Carbohydrate – Available/Total	gm	zero
Dietary Fibre (Englyst)	gm	zero
Energy	Kcal/Kj	zero
Fat	gm	zero
Mono/Polyunsaturated; Saturated; Trans and Total	gm	zero
Folic Acid (Total)	µg	zero
Iodine	µg	zero
Iron	mg	<1
Magnesium	mg	trace
Moisture	gm	trace
Niacin	mg	zero
Nitrogen	gm	<1
Pantothenic Acid	mg	zero
Phosphorous	mg	zero
Polyols – Added (if >5%)	%	zero
Potassium	mg	39000
Protein – state factor used	gm	zero
Salt – Added/Total	gm	zero
Sodium	mg	~500
Sugars – Added/Total	gm	zero
Vitamins (Retinol Vit.A; Thiamin Vit.B1; Riboflavin Vit.B2; Vit.B6; Vit.B12; Vit.C; Vit.D; Vit.E)	mg	zero
Zinc	mg	zero

Documents

Reference Documents

- ISO 9001:2015 Quality Management System
- HACCP Chart
- Allergen Statement
- FSSC 22000 GFSI Certification
- Kosher Certificate
- Halal Certificate

Other Documents

- Certified Food Grade Guarantee
- Process Flow Chart
- Organizational Chart
- Bioterrorism Statement
- California Prop 65
- 25 KG Package Label



POTASSIUM BICARBONATE FOOD GRADE DATA PACKAGE REFERENCE DOCUMENTS

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HACCP Chart	Page 3
Allergen Statement	Page 4
FSSC 22000 GFSI Certification	Page 5
Kosher Certificate	Page 6-7
Halal Certificate	Page 8

CERTIFICATO DI SISTEMA DI GESTIONE

Certificato n.:
C670923

Data Prima Emissione:
10 giugno 1994
(da differente Organismo di Certificazione)

Validità:
18 marzo 2024 – 08 giugno 2026

Si certifica che il sistema di gestione di

ESSECO S.r.l.

Via San Cassiano, 99 - 28069 San Martino di Trecate (NO) - Italia

È conforme allo Standard:

ISO 9001:2015

Questa certificazione è valida per il seguente campo applicativo:

**Sviluppo, produzione, analisi di laboratorio, vendita e commercializzazione di: prodotti chimici per l'industria e per l'agricoltura; additivi e coadiuvanti per il settore enologico e per l'industria alimentare. Produzione, stoccaggio e vendita deicer (sghiacciante per pista aeroporti) e sodio idrosolfato.
(IAF 12, 03)**

Luogo e Data:
Vimercate (MB), 18 marzo 2024



SGQ N° 003 A
SGA N° 003 D
SGE N° 007 M
SCR N° 004 F

EMAS N° 009 P
PRD N° 003 B
PRS N° 094 C
SSTI N° 002 G

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP, GIIG, LAB e LAT, di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB, MED, LAT e ISP

Per l'Organismo di Certificazione:
DNV - Business Assurance
Via Energy Park, 14, - 20871 Vimercate (MB) - Italy



Claudia Baroncini
Management Representative



Date: February 10, 2026

Version: 01

HACCP / CCP STATEMENT

Product: Potassium Bicarbonate FFQ Food Grade

Product Code: 1KB03E

To Whom it May Concern:

We hereby declare that the food grade Potassium Bicarbonate sold by Esseco USA is produced and handled in accordance with an established HACCP plan designed to identify and control significant food-safety hazards. The Critical Control Points (CCPs) outlined below represent the key stages in the process where control measures are essential to prevent, eliminate, or reduce hazards to acceptable levels.

Critical Control Points (CCPs)

PHASE	RISK			PREVENTIVE CHECK	CCP/ OPRP	MONITORING	CORRECTIVE ACTION	REGISTERED
	M	C	P					
A	N	Y	N	<u>Purification of CO2</u> Checking the correct pH conditions of the scrubber tower	OPRP	Checks at every shift	Product segregation and downgrading	On record
1	N	N	N	<u>Adding of raw materials</u> Chemical control of raw materials and utilities	N	Supplier approval procedures, incoming checks. Utilities control	Replacement of raw materials, product downgrading	On record
2	N	N	N	<u>Crystallization</u> In process control	N	Checks at every shift	Product downgrade	On record
3	N	N	N	<u>Centrifugation</u> In process control	N	Checks at every shift	Product downgrade	On record
4	N	N	N	<u>Drying</u> Control of utilities	N	Checks according to control plan	Product downgrade	On record
5	N	N	Y	<u>Packaging in BB</u> Constant control of metal detector	OPRP	Check during packaging	Product segregation and downgrading	On record
6	N	N	N	<u>Transfer to packaging line</u> Application of GMP procedures	N	Check according to GMP procedure	Product downgrade	On record
7	N	N	Y	<u>Packaging in bag</u> Constant control of metal detector	OPRP	Check during packaging	Product segregation and downgrading	On record
	N	Y	N	<u>Packaging in bag</u> Check sulfites content in case of packaging change	CCP	Analytical check	Product segregation and downgrading	On record
	N	N	N	<u>Storage</u> Application of GMP procedures	N	Check according to GMP procedure	Product downgrade	On record
	N	N	N	<u>Preparation of material for shipment</u> Application of GMP procedures	N	Check according to GMP procedure	Product downgrade	On record
	N	N	N	<u>Loading</u> Checking the cleanliness of the vehicle	N	Check according to GMP procedure	Product downgrade	On record

- Legend
- M – Microbiological risk
 - C – Chemical risk
 - P – Physical/foreign-matter risk

We hope that this information is useful to you. If you have any questions or require additional information, please feel free to contact us at info@essecousa.com.

Sincerely,

Mina Abdelmalek

Mina Abdelmalek

Technical Service

(973)-267-3330

www.essecousa.com

Disclaimer: The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information, we assume no obligation, expressed or implied, or liability for the use of or reliance on the information and data provided. The information is furnished upon the condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.



+1 (973) 267-3330
essecousa.com
info@essecousa.com

Date: January 13, 2025

ALLERGENS STATEMENT

Product: Food grade of Potassium Bicarbonate

To Whom it May Concern:

We hereby declare that the food grade of Potassium Bicarbonate sold by Esseco USA is not processed with, does not come in contact with, and does not contain any of the following known allergens:

Artificial Sweeteners

Celery

Colorants

Dyes

Egg or Egg Products

Fish or Fish Products

Gluten (Wheat, Barley, Rye, or Oats)

Lactose

Latex

Lupin

Milk or Milk Products

Monosodium Glutamate (MSG)

Mustard (or its derivatives)

Peanuts or Peanut Products

Preservatives

Seeds or Seed Products (Buckwheat, Cotton, Poppy, Sesame, or Sunflower)

Shellfish (Crustacean or Molluscan) or Shellfish Products

Soy, Soybeans, or Soybean Products

Tree Nuts or Nut Products (Almond, Brazil, Cashew, Coconut, Hazelnut, Macadamia, Pecan, Pine, Pistachio, or Walnut)

Wheat or Wheat Products

We hope that this information is useful to you. If you have any questions or require additional information, please feel free to contact us.

Sincerely,

Mina Abdelmalek

Mina Abdelmalek

Esseco USA

Essecousa.com

Disclaimer: The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information, we assume no obligation, expressed or implied, or liability for the use of or reliance on the information and data provided. The information is furnished upon the condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.



MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
C671026
COID Code:
ITA-1-0253-225461

Initial certification date:
20 March 2024

Valid:
16 November 2024 – 15 November 2027

This is to certify that the Food Safety Management System of

ESSECO S.r.l.

Via San Cassiano, 99 - 28069 San Martino di Trecate (NO) - Italy

has been assessed and determined to comply with the requirements of
FSSC 22000

Certification scheme for food safety management systems consisting of the following elements:
ISO 22000:2018, ISO/TS 22002-1:2009 and Additional FSSC 22000 requirements (Version 6).

This certificate is applicable for the scope of:

Production (including synthesis processes, dissolving, drying, filtering, mixing) and packaging in pouches, cans, jars, bags and big-bags of additives and technological adjuvant for the oenological and food sectors. Category K

Date of Certification Decision:
07 July 2024

Date of the last unannounced audit:
08 February 2023

Issue Date / Place and date:
Vimercate (MB), 11 July 2024



MS N°0003
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC, Signatory of EA, IAF and ILAC Mutual Recognition Agreements

For the issuing office:
DNV Business Assurance Italy S.r.l.
Via Energy Park, 14, - 20871 Vimercate (MB) - Italy

DNV:



FSSC:



Sabrina Bianchini
Management Representative



Badatz Mehadrin Milano

Rabbi Avraham Hazan
Rabbinic Administrator, CEO
R' Betzael Schutz
Technical Director

בד"צ מהדרין מילאנו

בס"ד

Rabbi Menachem Mendel Kaplan
Rabbi Levi Yitzchok Hazan
Rabbi Yosef Yitzchak Labi
Rabbi Menachem Mendel Springer

Kosher Certification - Passover

Milan 13 Adar 5786
March 2, 2026

Spett.
Esseco Srl
Via S. Cassiano, 99
28069 S. Martino di Trecate (NO)

PAGE 2 OF 2

To the attention of the **Supervising Rabbi / Kashruth Agency**

Handwritten signature

This is to certify that the following products:

- SOLUZIONE GOMMA ARABICA (SEYAL) / ARABIC GUM SOLUTION (SEYAL)
- SOLUZIONE GOMMA ARABICA (VEREK) / ARABIC GUM SOLUTION (VEREK)
- ACIDO METATARTARICO / METATARTARIC ACID
- SODIO BISOLFITO SOLUZIONE / SODIUM BISULPHITE SOLUTION
- SODIO METABISOLFITO / SODIUM METABISULPHITE
- SODIO SOLFITO ANIDRO / SODIUM SULPHITE ANHYDROUS
- SODIO TIOSOLFATO / SODIUM THIOSULPHATE
- SODIO TIOSOLFATO SOLUZIONE / SODIUM THIOSULPHATE SOLUTION
- MAGNESIO BISOLFITO SOLUZIONE / MAGNESIUM BISULPHITE SOLUTION
- AMMONIO BICARBONATO / AMMONIUM BICARBONATE
- AMMONIO BISOLFITO SOLUZIONE / AMMONIUM BISULPHITE SOLUTION
- POTASSIO CARBONATO SOLUZIONE / POTASSIUM CARBONATE SOLUTION
- POTASSIO BICARBONATO / POTASSIUM BICARBONATE

produced by **Esseco Srl**, S. Martino di Trecate (NO), Italy.

are **Kosher Parve for Passover** *Handwritten signature* under our supervision.

Badatz Mehadrin Milan, Italy, Kashruth Division.

This certificate is valid until **March 31, 2027** and is subject to renewal at that time.

Handwritten signature



Our best regards,
Rabbi Avraham Hazan

Handwritten signature



Badatz Mehadrin Milano

Rabbi Avraham Hazan
Rabbinic Administrator, CEO
R' Betzael Schutz
Technical Director

Rabbi Menachem Mendel Kaplan
Rabbi Levi Yitzchok Hazan
Rabbi Yosef Yitzchak Labi
Rabbi Menachem Mendel Springer

ב"ד"צ מהדרין מילאנו

7"ס

Kosher Certification – Passover

Milan 13 Adar 5786
March 2, 2026

Spett.
Esseco Srl
Via S. Cassiano, 99
28069 S. Martino di Trecate (NO)

PAGE 1 OF 2

To the attention of the **Supervising Rabbi / Kashruth Agency**

היום וד"ר

This is to certify that the following products:

- ANIDRIDE SOLFOROSA LIQUIDA / LIQUID SULPHUR DIOXIDE
- MISCELA DI POTASSIO METABISOLFITO EFFERVESCENTE / EFFERVESCENT POTASSIUM METABISULPHITE BLEND
- POTASSIO METABISOLFITO / POTASSIUM METABISULPHITE
- POTASSIO BISOLFITO SOLUZIONE / POTASSIUM BISULPHITE SOLUTION
- AMMONIO BISOLFITO SOLUZIONE / AMMONIUM BISULPHITE SOLUTION
- MISCELA DI TANNINO CONDENSATO ESTRATTO DA LEGNO DI SPECIE ESOTICHE, CASTAGNO E TARA / CONDENSED TANNIN BLEND EXTRACTED FROM WOOD OF EXOTIC SPECIES, CHESTNUT AND TARA
- MISCELA DI TANNINI ELLAGICI / ELLAGIC TANNIN BLEND
- MISCELA DI TANNINI GALLICI E CONDENSATI / GALLIC AND CONDENSED TANNIN BLEND
- TANNINO CONDENSATO / CONDENSED TANNIN
- TANNINO ELLAGICO / ELLAGIC TANNIN
- TANNINO GALLICO / GALLIC TANNIN
- MISCELA DI PARAFFINA, CERA E CALCIO CARBONATO / BLEND OF PARAFFIN, WAX AND CALCIUM CARBONATE.
- MISCELA DI POTASSIO METABISOLFITO E TANNINO / SOLUTION OF POTASSIUM METABISULPHITE AND TANNIN

produced by **Esseco Srl**, S. Martino di Trecate (NO), Italy,

are **Kosher Parve for Passover** under our supervision,

Badatz Mehadrin Milan, Italy, Kashruth Division.

This certificate is valid until **March 31, 2027**
and is subject to renewal at that time.

כ"ב מצרף משלך



Our best regards,
Rabbi Avraham Hazan

היום וד"ר

COMPANY / AZIENDA / الشركة

Esseco S.r.l.

Via San Cassiano, 99 - 28069 San Martino di Trecate (NO) - Italy

ADDRESS OF THE PRODUCTION SITE / INDIRIZZO DEL SITO PRODUTTIVO / عنوان موقع الإنتاج

Via San Cassiano, 99 - 28069 San Martino di Trecate (NO) - Italy

COMMODITY TRADEMARK / MARCHIO COMMERCIALE DEL PRODOTTO / العلامة التجارية للمنتوج

ESSECO

PRODUCT / PRODOTTO / المنتج

Food Additive

SODIO METABISOLFITO / SODIUM METABISULFITE

SODIO SOLFITO / SODIUM SULFITE

SODIO BISOLFITO SOLUZIONE / SODIUM BISULFITE SOLUTION

ANIDRIDE SOLFOROSA / SULFUR DIOXIDE

AMMONIO BICARBONATO / AMMONIUM BICARBONATE

POTASSIO METABISOLFITO / POTASSIUM METABISULFITE

POTASSIO BICARBONATO/POTASSIUM BICARBONATE

POTASSIO CARBONATO SOLUZIONE / POTASSIUM CARBONATE

SOLUTION

Food Adjuvant

AMMONIO BISOLFITO SOLUZIONE / AMMONIUM BISULFITE SOLUTION

SULFIMAG HFS / SULFIMAG HFS

IT IS COMPLIANT TO THE FOLLOWING HALAL CERTIFICATION STANDARDS
È CONFORME AI SEGUENTI STANDARD DI CERTIFICAZIONE HALAL

موافيق لمعايير شهادة الحلال التالية

COREIS DTP HLL 02, UAE.S 2055-1, GSO 2055-1, OIC/SMIIC 1, MS 1500, MUIS SMHS, SJPH Indonesia

DATE FIRST ISSUE

DATA PRIMA EMISSIONE

تاريخ الإصدار الأول

28 / 4 / 2025

DATE PRESENT ISSUE

DATA EMISSIONE CORRENTE

تاريخ الإصدار الحالي

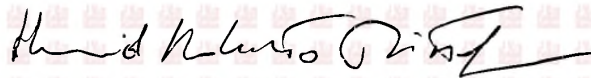
28 / 4 / 2025

CERTIFICATE EXPIRY DATE

DATA SCADENZA CERTIFICATO

تاريخ إنتهاء الشهادة

27 / 4 / 2026



Hamid Roberto Distefano

CEO Halal Italia / Amministratore Delegato Halal Italia / شركة حلال إيطاليا / رئيس المؤسسة الإيطالية لشهادة الإسلامية





POTASSIUM BICARBONATE FOOD GRADE DATA PACKAGE REFERENCE DOCUMENTS

Certified Food Grade Guarantee	Page 2
Process Flow Chart	Page 3
Organizational Charts	Page 4-5
Bioterrorism Statement	Page 6
California Prop 65 Statement	Page 7
Microplastic Statement	Page 8
50 LB Package Label	Page 9

Date: January 02, 2026

GUARANTEE UNDER SECTION 303 (C) (2)
OF THE FEDERAL FOOD, DRUG, AND COSMETIC ACT

FOR THE PURPOSE OF SECTION 303(C) (2) OF THE FEDERAL FOOD AND COSMETIC ACT, WE HEREBY GUARANTEE THAT, AS OF THE DATE OF EACH SHIPMENT BY US TO YOU OF ANY ARTICLE LISTED BELOW SUCH ARTICLE IS NOT, WHEN SHIPPED, ADULTERATED OR MISBRANDED WITHIN THE MEANING OF THE FEDERAL FOOD, DRUG, AND COSMETIC ACT OR OF ANY APPLICABLE STATE LAW IN WHICH THE DEFINITIONS OF ADULTERATION AND MISBRANDING ARE THE SAME AS THOSE CONTAINED IN THE FEDERAL FOOD, DRUG, AND COSMETIC ACT. WE FURTHER GUARANTEE THAT, AS OF THE DATE OF EACH SHIPMENT, NO SUCH ARTICLE IS AN ARTICLE WHICH MAY NOT, UNDER THE PROVISIONS OF SECTION 404 OR 505 OF THE FEDERAL FOOD, DRUG, AND COSMETIC ACT, BE INTRODUCED INTO INTERSTATE COMMERCE.

THIS GUARANTEE SHALL BE A CONTINUING GUARANTEE AND SHALL CONTINUE IN EFFECT FOR A PERIOD OF FIVE YEARS FROM THE DATE HEREOF, OR UNTIL SUCH EARLIER DATE AS YOU SHALL RECEIVE FROM US WRITTEN NOTICE OF THE REVOCATION OF THE GUARANTEE CONTAINED HEREIN OR A CHANGE IN FEDERAL REGULATION OCCURS.

PRODUCT	GRADE	CODE
POTASSIUM BICARBONATE	FOOD	1KB03E

We hope that this information is useful to you. If you have any questions or require additional information, please feel free to contact us.

Sincerely,

Mina Abdelmalek

Mina Abdelmalek

Technical Service and Sales

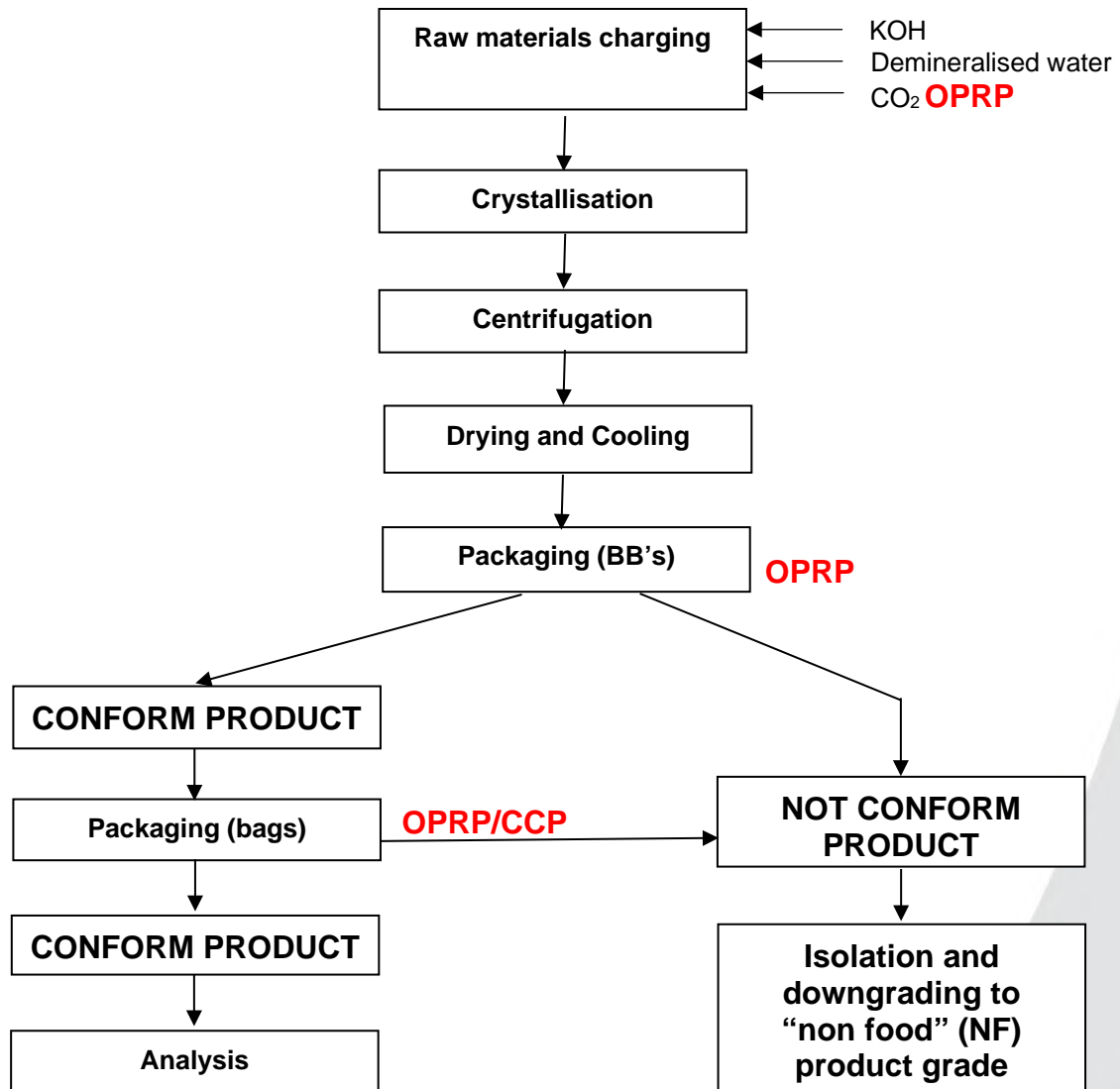
Esseco USA

Essecousa.com



Manufacturing Flow Sheet / HACCP plan

Potassium Bicarbonate FFQ (food grade)



Esseco S.r.l.

Società Unipersonale

Sede Legale e Stabilimento

Via S. Cassiano, 99
San Martino 28069 Trecate (NO) Italia
Tel. +39 0321 7901
Fax +39 0321 790207

Stabilimento secondario

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27043 San Cipriano Po (PV) Italia
Tel. +39 0385 241700

Deposito

Decima strada ang. Quinta strada
09032 Assemini (CA) Italia

esseco@esseco.it
www.esseco.com

Cap. Soc. Euro 10.000.000 i.v.
R.E.A. 142984 – Novara

Codice Fiscale
Partita IVA
Registro Imprese Novara
01027000031

Società soggetta
a coordinamento e controllo
di Esseco Industrial S.p.A.
C.F. e Partita IVA
02775600030

OPRP Checking the pH conditions of scrubber tower
OPRP Constant control of metal detector
CCP Check sulphites, in case of packaging change





CDA ESSECO SRL

Chairman

CEO

Supervisory Model 231

Board of Statutory Auditors

Management Systems

Energy Manager

Regulatory

CFO

HR Director

Technical Director

Site Manager San Cipriano

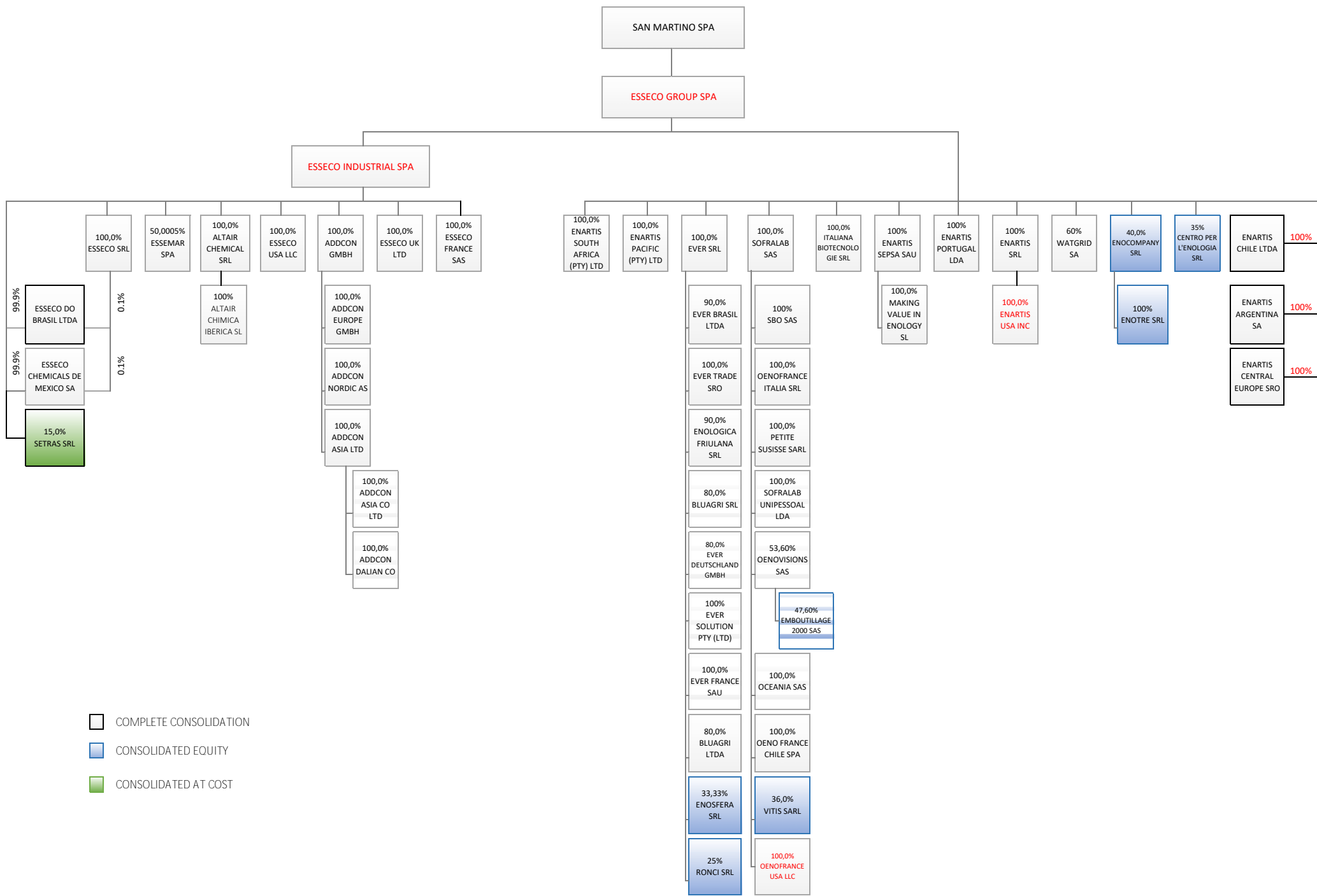
Production Director

Purchase Manager

QA & QC Director

Sales Director

Supply Chain Director



- COMPLETE CONSOLIDATION
- CONSOLIDATED EQUITY
- CONSOLIDATED AT COST



+1 (973) 267-3330
essecousa.com
info@essecousa.com

Date: January 02, 2026
Version: 01

FOOD SECURITY (BIOTERRORISM) STATEMENT

Product: Potassium Bicarbonate FFQ Food Grade

Product Code: 1KB03E

To Whom it May Concern:

Thank you for your recent inquiry about our compliance with the FDA regulations related to the Public Health Security and Bioterrorism Preparedness and Response Act of 2002 (The Bioterrorism Act).

The events of September 11, 2001, highlighted the need to enhance the security of the infrastructure of the United States, including the food supply. Congress responded by enacting the Bioterrorism Act (Public Law 107-188), which was signed into law on June 12, 2002. The Bioterrorism Act includes a provision in Title III (Protecting Safety and Security of Food and Drug Supply), Subtitle A – Protection of Food Supply, Section 305, which requires the Secretary of Health and Human Services to develop a regulation to require domestic and foreign facilities that manufacture, process, pack, or hold food for consumption in the United States to register with FDA by December 12, 2003. EssecoUSA LLC is in full compliance with Section 305.

The Bioterrorism Act also includes a provision in Title III (Protecting Safety and Security of Food and Drug Supply), Subtitle A – Protection of Food Supply, Section 307, which requires the Secretary of Health and Human Services to develop a regulation to require that the FDA receive prior notice for food imported or offered for import into the United States. Esseco USA LLC is in full compliance with Section 307.

Finally, The Bioterrorism Act includes a provision in Title III (Protecting Safety and Security of Food and Drug Supply), Subtitle A – Protection of Food Supply, Section 306, which requires the Secretary of Health and Human Services to develop a regulation to established recordkeeping requirements for persons (excluding farms and restaurants) who manufacture, process, pack, transport, distribute, receive, hold, or import food to establish and maintain food records. Esseco USA LLC is in full compliance with Section 306.

WE HEREBY CERTIFY THAT OUR COMPANY HAS RECEIVED A REGISTRATION NUMBER FROM THE U.S.FDA REGISTRATION OF FOOD FACILITIES, AND COMPLIES WITH THE BIOTERRORISM ACT OF 2002.

FDA Registration Number 10290799032

We hope that this information is useful to you. If you have any questions or require additional information, please feel free to contact us.

Sincerely,

Mina Abdelmalek

Mina Abdelmalek

Esseco USA

Essecousa.com



+1 (973) 267-3330
essecousa.com
info@essecousa.com

Date: December 5, 2025
Version: 01

CALIFORNIA PROPOSITION 65 STATEMENT

Product: Potassium Bicarbonate FFQ Food Grade

To Whom it May Concern:

We hereby declare that the Food grade of potassium bicarbonate sold by Esseco USA is not included in the December 5, 2025 listing of chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

This information is accurate to the best of our knowledge at the time of this writing. It should, therefore, not be construed as guaranteeing specific properties. Because regulations and laws are continually being revised, the status of the aforementioned product could eventually change. We do not perform routine analytical testing to detect the presence of contaminants. The buyers or users are responsible for ensuring that the products they use, as supplied by us, are appropriate for and comply with the specific requirements of their intended application.

We hope that this information is useful to you. If you have any questions or require additional information, please feel free to contact us.

Sincerely,

Mina Abdelmalek

Mina Abdelmalek

Esseco USA

Essecousa.com

Disclaimer: The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information, we assume no obligation, expressed or implied, or liability for the use of or reliance on the information and data provided. The information is furnished upon the condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

Date: January 02, 2026
Version: 01**Microplastic Statement****Product:** Potassium Bicarbonate FFQ Food Grade

To Whom it May Concern:

We hereby declare that the food grade of potassium bicarbonate sold by Esseco USA is free from microplastics and no microplastics are used in its manufacturing process. Sodium Metabisulfite does not contain microbeads, defined as solid plastic particles less than five millimeters in size. Microplastics are solid plastic particles composed of polymer mixtures and functional additives, which may also contain residual impurities. It is important to note that microplastics can be unintentionally formed through the wear and tear of larger plastic pieces.

- **Microbead**
- **Microplastic**
- **Microparticle**

This information is accurate to the best of our knowledge at the time of this writing. It should, therefore, not be construed as guaranteeing specific properties. Because regulations and laws are continually being revised, the status of the aforementioned product could eventually change. We do not perform routine analytical testing to detect the presence of contaminants. The buyers or users are responsible for ensuring that the products they use, as supplied by us, are appropriate for and comply with the specific requirements of their intended application.

We hope that this information is useful to you. If you have any questions or require additional information, please feel free to contact us.

Sincerely,

Mina Abdelmalek

Mina Abdelmalek

Esseco USA

Essecousa.com

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<p>ESCLUSIVAMENTE PER USO PROFESSIONALE CARBONATO ACIDO DI POTASSIO ADDITIVO ALIMENTARE E501ii PER ALIMENTI</p> <p>(DA IMPIEGARE UNICAMENTE AI FINI DELLA PRODUZIONE ALIMENTARE, NON DESTINATO ALLA VENDITA AL DETTAGLIO) ADDITIVO CHIMICO DA AGGIUNGERE IN QUANTITÀ LIMITATA SOLO ALLE SOSTANZE ALIMENTARI PER LE QUALI NE È CONSENTITO L'IMPIEGO SECONDO LE DIRETTIVE/I REGOLAMENTI IN VIGORE</p>	<p>FOR PROFESSIONAL USE ONLY POTASSIUM HYDROGEN CARBONATE FOOD ADDITIVE E501ii FOR FOOD (FOOD GRADE)</p> <p>(INTENDED FOR THE MANUFACTURE OF FOODSTUFFS AND NOT FOR RETAIL SALE) CHEMICAL ADDITIVE TO BE ADDED IN LIMITED QUANTITY ONLY TO THE FOODSTUFFS FOR WHICH USE IS ALLOWED ACCORDING TO DIRECTIVES/REGULATIONS IN FORCE</p>
<p>EXCLUSIVEMENT À USAGE PROFESSIONNEL CARBONATE ACIDE DE POTASSIUM ADDITIF ALIMENTAIRE E501ii POUR DENRÉES ALIMENTAIRES</p> <p>(DESTINÉ À LA FABRICATION DES DENRÉES ALIMENTAIRES ET NON DESTINÉ À LA VENTE AU DÉTAIL) ADDITIF CHIMIQUE À AJUTER EN QUANTITÉ LIMITÉE SEULEMENT AUX SUBSTANCES ALIMENTAIRES POUR LESQUELLES L'USAGE EST ADMIS SELON LES DIRECTIVES/LES RÈGLEMENTS EN VIGUEUR</p>	<p>FÜR BERUFSZWECKE KALIUMHYDROGENCARBONAT LEBENSMITTELZUSATZSTOFF E501ii FÜR LEBENSMITTEL</p> <p>(FÜR DIE HERSTELLUNG VON LEBENSMITTELN BESTIMMT, NICHT FÜR DEN VERKAUF IM EINZELHANDEL) CHEMISCHER ZUSATZSTOFF, DER IN EINER MENGE ZUZUFÜGEN IST, DIE NUR AUF DIE LEBENSMITTELSTOFFE BESCHRÄNKT IST, FÜR DIE SEINE VERWENDUNG GEMÄSS DEN GELTENDEN RICHTLINIEN/VORSCHRIFTEN ZULÄSSIG IST</p>
<p>SÓLO PARA USO PROFESSIONAL CARBONATO ÁCIDO DE POTASIO ADITIVO ALIMENTARIO E501ii DESTINADO A LA ALIMENTACIÓN</p> <p>(PARA FABRICACIÓN DE PRODUCTOS ALIMENTICIOS, NO DESTINADO A LA VENTA AL POR MENOR) ADITIVO QUÍMICO PARA AÑADIR EN CANTIDAD LIMITADA SOLAMENTE A LAS SUSTANCIAS ALIMENTARIAS EN LAS CUALES ESTÁ PERMITIDO SU USO SEGUN LAS DIRECTIVAS/LOS REGLAMENTOS EN VIGOR</p>	<p>APENAS PARA USO PROFISSIONAL HIDROGENOCARBONATO DE POTÁSSIO ADITIVO ALIMENTAR E501ii PARA ALIMENTOS</p> <p>(PARA FABRICAÇÃO DE GÊNEROS ALIMENTÍCIOS E NÃO PARA VENDA A RETALHO) ADITIVO QUÍMICO A ADICIONAR EM QUANTIDADE LIMITADA APENAS ÀS SUBSTÂNCIAS ALIMENTARES PARA AS QUAIS A SUA UTILIZAÇÃO É PERMITIDA DE ACORDO COM AS DIRECTIVAS/REGULAMENTOS EM VIGOR</p>

PIM131 - R0 (0324)

<p>ESCLUSIVAMENTE PER USO PROFESSIONALE CARBONATO ACIDO DI POTASSIO ADDITIVO ALIMENTARE E501ii PER ALIMENTI</p> <p>(DA IMPIEGARE UNICAMENTE AI FINI DELLA PRODUZIONE ALIMENTARE, NON DESTINATO ALLA VENDITA AL DETTAGLIO) ADDITIVO CHIMICO DA AGGIUNGERE IN QUANTITÀ LIMITATA SOLO ALLE SOSTANZE ALIMENTARI PER LE QUALI NE È CONSENTITO L'IMPIEGO SECONDO LE DIRETTIVE/I REGOLAMENTI IN VIGORE</p>	<p>FOR PROFESSIONAL USE ONLY POTASSIUM HYDROGEN CARBONATE FOOD ADDITIVE E501ii FOR FOOD (FOOD GRADE)</p> <p>(INTENDED FOR THE MANUFACTURE OF FOODSTUFFS AND NOT FOR RETAIL SALE) CHEMICAL ADDITIVE TO BE ADDED IN LIMITED QUANTITY ONLY TO THE FOODSTUFFS FOR WHICH USE IS ALLOWED ACCORDING TO DIRECTIVES/REGULATIONS IN FORCE</p>
<p>EXCLUSIVEMENT À USAGE PROFESSIONNEL CARBONATE ACIDE DE POTASSIUM ADDITIF ALIMENTAIRE E501ii POUR DENRÉES ALIMENTAIRES</p> <p>(DESTINÉ À LA FABRICATION DES DENRÉES ALIMENTAIRES ET NON DESTINÉ À LA VENTE AU DÉTAIL) ADDITIF CHIMIQUE À AJUTER EN QUANTITÉ LIMITÉE SEULEMENT AUX SUBSTANCES ALIMENTAIRES POUR LESQUELLES L'USAGE EST ADMIS SELON LES DIRECTIVES/LES RÈGLEMENTS EN VIGUEUR</p>	<p>FÜR BERUFSZWECKE KALIUMHYDROGENCARBONAT LEBENSMITTELZUSATZSTOFF E501ii FÜR LEBENSMITTEL</p> <p>(FÜR DIE HERSTELLUNG VON LEBENSMITTELN BESTIMMT, NICHT FÜR DEN VERKAUF IM EINZELHANDEL) CHEMISCHER ZUSATZSTOFF, DER IN EINER MENGE ZUZUFÜGEN IST, DIE NUR AUF DIE LEBENSMITTELSTOFFE BESCHRÄNKT IST, FÜR DIE SEINE VERWENDUNG GEMÄSS DEN GELTENDEN RICHTLINIEN/VORSCHRIFTEN ZULÄSSIG IST</p>
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PIM131 - R0 (0324)


POTASSIO BICARBONATO FFQ
ESSECO

KEEP IN A COOL DRY AREA
PREVENT SUNLIGHT EXPOSURE




POTASSIO BICARBONATO FFQ
ESSECO

KEEP IN A COOL DRY AREA
PREVENT SUNLIGHT EXPOSURE




POTASSIO BICARBONATO FFQ
POTASSIUM BICARBONATE FFQ
BICARBONATE DE POTASSIUM FFQ
KALIUMBICARBONAT FFQ
BICARBONATO POTÁSICO FFQ
BICARBONATO DE POTÁSSIO FFQ
ESSECO
KHCO₃ - EC No. 206-059-0 / CAS No. 298-14-6

Conservare al riparo dall'umidità; evitare l'esposizione ai raggi solari.
Keep container dry; prevent sunlight exposure.
Garder à l'écart de l'humidité; éviter l'exposition aux rayons du soleil.
Von Feuchtigkeit fernhalten; vermeiden sie die einwirkung von sonnenstrahlen.
Almacenar lejos de la humedad; evite la exposición a la luz solar.
Armazenar longe da umidade; evite a exposição à luz solar.

25 kg

ESSECO Srl - Via San Cassiano 99, fraz. San Martino - 28069 Trecate (No) - Italia - Tel. +39-0321-790-1 - Fax +39-0321-790-207 - www.esseco.com

MADE IN ITALY


POTASSIO BICARBONATO FFQ
POTASSIUM BICARBONATE FFQ
BICARBONATE DE POTASSIUM FFQ
KALIUMBICARBONAT FFQ
BICARBONATO POTÁSICO FFQ
BICARBONATO DE POTÁSSIO FFQ
ESSECO
KHCO₃ - EC No. 206-059-0 / CAS No. 298-14-6

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MADE IN ITALY

KEEP IN A COOL DRY AREA
PREVENT SUNLIGHT EXPOSURE


POTASSIUM BICARBONATE FFQ
ESSECO



KEEP IN A COOL DRY AREA
PREVENT SUNLIGHT EXPOSURE


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