



VITUSA PRODUCTS™
INCORPORATED
MATERIAL SAFETY DATA SHEET

VITUSA PRODUCTS, INC.

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Product: POTASSIUM HYDROGEN CARBONATE

Material no.	Version	1.2 / US
Specification 118444	Revision date	10/25/2007
Order Number	Print Date	11/08/2007
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

COMMERCIAL PRODUCT NAME:	POTASSIUM HYDROGEN CARBONATE
COMPANY/SUPPLIER:	Vitusa Products, Inc. 343 Snyder Avenue Berkeley Heights, NJ 07922
Phone	(908) 665-2900
Fax	(908) 665-2662
24 Hour Emergency Phone Number:	(800) 884-8872
CHEMTREC:	(800) 424-9300
Product Regulatory Services	(973) 541-8060

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-*crystals, powder* **Color-***white* **Odor-***odourless*

Dust may cause eye, skin and respiratory tract irritations.

POTENTIAL HEALTH EFFECTS

Eye contact

Possibly irritating.

Skin Contact

May cause skin irritation.

Inhalation

May cause irritations of the respiratory tract.

Ingestion

No hazard expected in normal use.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Other information

This material is classified as hazardous under OSHA regulations.

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4. FIRST AID MEASURES

General advice

Remove contaminated or saturated clothing immediately and follow safe disposal procedures.

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

Skin contact

Wash off immediately with soap and plenty of water.

Eye contact

Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

5. FIRE-FIGHTING MEASURES

Flash point not applicable

Autoignition temperature not applicable

Suitable extinguishing media

The product is not combustible. In case of fire in the surroundings: Water spray, foam, CO2, dry powder.

Specific hazards during fire fighting

None known.

Further information

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation. Use personal protective equipment.

Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Methods for cleaning up

Use mechanical handling equipment.

After cleaning, flush away traces with water.

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7. HANDLING AND STORAGE

Handling

Safe handling advice

Avoid dust formation.

Advice on protection against fire and explosion

No special precautions required.

Storage

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Product occupational exposure guidelines

CAS-No.	298-14-6	EC-No.	206-059-0
Control parameters	3 mg/m ³		Time Weighted Average (TWA):(ACGIH)
Type of exposition	Respirable fraction.		
Control parameters	10 mg/m ³		Time Weighted Average (TWA):(ACGIH)
	Inhalable particulate.		Time Weighted Average (TWA)
Control parameters	15 mg/m ³		Permissible Exposure Limit (PEL):(OSHA Z1)
Control parameters	Total dust.		Time Weighted Average (TWA)
	5 mg/m ³		Permissible Exposure Limit (PEL):(OSHAZ1)
	Respirable fraction.		

Component occupational exposure guidelines

Personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Recommendation: suitable protective gloves

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED)

Glove material	butyl-rubber, PVC, Natural rubber (NR), Polychloroprene with natural-latex liner.
Material thickness	0.5 mm
Break through time	> 480 min
Method	DIN EN 374
Glove material	nitrile rubber (Camatril, Tricotril, Dermatril), Fluorinated rubber (Vitoject)
Material thickness	0.35 - 0.4 mm
Break through time	> 480 min
Method	Source: KCL GmbH

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

Eye protection

Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

Do not wear contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	crystals, powder
Color	white
Odor	odourless

Safety data

pH	8.4 - 8.6 (99 g/l) (20 °C)
Melting point/range	ca. 127 °C decomposition
Flash point	not applicable
Autoignition temperature	not applicable
Density	2.17 g/cm ³ (20 °C)
Bulk density	1000 - 1100 kg/m ³
Water solubility	333 g/l (20 °C)

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10. STABILITY AND REACTIVITY

Thermal decomposition	ca. 127 °C
Hazardous reactions	Reacts with: acids evolution of carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Product Acute oral toxicity	LD50 rat: > 2000 mg/kg
Product Skin irritation	not irritating
Product Eye irritation	not irritating
Product General Toxicity Information	Own study

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability	The biodegradability cannot be determined for physico-chemical reasons.
General Ecological Information	no data available

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Advice on disposal	Waste must be disposed of in accordance with federal, state, provincial and local regulations.
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14. TRANSPORT INFORMATION

Transport/further information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

potassium hydrogen carbonate			
CAS-No.	298-14-6	Percent (Wt./ Wt.)	99 %

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15. REGULATORY INFORMATION (CONTINUED)

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below.

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15. REGULATORY INFORMATION (CONTINUED)

- | | |
|--------------------------|---------------------------|
| • Europe (EINECS/ELINCS) | Listed/registered |
| • USA (TSCA) | Listed/registered |
| • Canada (DSL) | Listed/registered |
| • Australia (AICS) | Listed/registered |
| • Japan (MITI) | Not listed/Not registered |
| • Korea (TCCL) | Not listed/Not registered |
| • Philippines (PICCS) | Not listed/Not registered |
| • China | Not listed/Not registered |

16. OTHER INFORMATION

HMIS Ratings

Health :	1
Flammability :	0
Physical Hazard :	0

The information provided in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. Vitusa Products believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is. It is the users responsibility to determine the suitability of the information provided and to distribute it to those who will use, handle, store, transport, or may otherwise be exposed to this product.

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