

Potassium bicarbonate**431583-50G**

Version 1.2

Issuing date 10/19/2016

Revision Date 10/02/2017

Print Date 08/07/2019

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Potassium bicarbonate

Number : 000000020764

Recommended use of the chemical and restrictions on use : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For further information, please contact: : 1-800-368-0050
+1-231-726-3171
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887
In Japan: +(81)-345209637
: (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

GHS Label elements, including precautionary statements

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

Other hazards which do not result in classification : Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Formula : CHKO3

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Potassium hydrogen carbonate	298-14-6	100.00 %
Potassium hydrogen carbonate		

Note: none

4. FIRST AID MEASURES

- General advice : First aider needs to protect himself.
Move out of dangerous area.
Take off all contaminated clothing immediately.
- Inhalation : Remove to fresh air.
If breathing is difficult, give oxygen.
Use oxygen as required, provided a qualified operator is present.
Call a physician.
- Skin contact : Wash off with plenty of water.
Remove and wash contaminated clothing before re-use.
Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes.
Call a physician if irritation develops or persists.
- Ingestion : Immediately give large quantities of water to drink.
If accidentally swallowed obtain immediate medical attention.
- Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Potassium oxide

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Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment. Unprotected persons must be kept away.
Evacuate personnel to safe areas.
Provide adequate ventilation.

Environmental precautions : Should not be released into the environment.
Prevent product from entering drains.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid inhalation, ingestion and contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use with local exhaust ventilation.

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Individual protection measures, such as personal protective equipment

Respiratory protection	: In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	: Latex gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety glasses with side-shields
Skin and body protection	: Wear suitable protective equipment. Wear as appropriate: Protective suit
Hygiene measures	: Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Wash hands before breaks and at the end of workday. When using do not eat or drink.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: powder
Colour	: colourless
Odour	: odourless
pH	: 8.0 - 8.6 at , 20 °C
Boiling point/boiling range	: Note: Not applicable
Flash point	: Note: Not applicable
Flammability	: The product is not flammable.

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Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Density : ca. 2.17 g/cm³ at 20 °C

Water solubility : 333 g/l at 20 °C

Partition coefficient: n-octanol/water : Note: no data available

Ignition temperature : Note: Not applicable

Molecular weight : 100.12 g/mol

Bulk density : ca. 1,000 kg/m³

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerization does not occur.
Exothermic reaction with strong acids.
Evolution of CO₂ in closed containers causes overpressure and produces a risk of bursting.

Conditions to avoid : Protect from heat/overheating.

Incompatible materials to avoid : Acids

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Potassium oxide

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11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50: > 2,000 mg/kg
Species: Rat
Method: OECD Test Guideline 401
- Acute inhalation toxicity : Note: Not classified due to data which are conclusive although insufficient for classification.
- Acute dermal toxicity : LD50: > 2,000 mg/kg
Species: Rabbit
Method: OECD Test Guideline 402
- Skin irritation : Species: Rabbit
Result: slight irritation
Note: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
- Eye irritation : Species: Rabbit
Result: slight irritation
Note: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
- Sensitisation : Buehler Test
Species: Guinea pig
Result: non-sensitizing
Method: OECD Test Guideline 406
- Repeated dose toxicity : Note: Not classified due to data which are conclusive although insufficient for classification.
- Genotoxicity in vitro : Test Method: In vitro gene mutation study in mammalian cells
Cell type: Mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 476
Test substance: REACH dossier "read-across"
- : Test Method: Chromosome aberration test in vitro
Cell type: Chinese hamster fibroblasts
Metabolic activation: without metabolic activation

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Result: negative
Method: OECD Test Guideline 473
Test substance: REACH dossier "read-across"

: Test Method: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471
Test substance: REACH dossier "read-across"

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish : flow-through test
LC50: 1,300 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates : static test
EC50: 630 mg/l
Exposure time: 48 h
Species: Ceriodaphnia dubia (water flea)

Toxicity to algae : Note: no data available

Persistence and degradability

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

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14. TRANSPORT INFORMATION**ADR**

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

15. REGULATORY INFORMATION**National regulatory information**

Fire Service Law : Not relevant

Poisonous and Deleterious
Substances Control Law : Not relevant**Other international regulations****Notification status**US. Toxic Substances
Control Act : On TSCA InventoryAustralia. Industrial Chemical
(Notification and
Assessment) Act : On the inventory, or in compliance with the inventoryCanada. Canadian
Environmental Protection Act
(CEPA). Domestic
Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals
Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic : On the inventory, or in compliance with the inventory

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Substances and Hazardous
and Nuclear Waste Control
Act

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group