

Safety Data Sheet
According to Hazard Communication Standard (29 CFR 1910.1200)

POTASSIUM BICARBONATE

Issue date: 03/17/2015

Version 1.0

Revision date: 03/17/2015

1. Product and Company Identification

Material name POTASSIUM BICARBONATE
CAS # See section 3
Product code -
Product use Not available.
Manufacturer/Supplier
Supplier(Manufacturer): ZHEJIANG DAYANG BIOTECH GROUP CO.,LTD
Address: NO.22 CHAOYANG ROAD, DAYANG, JIANDE, ZHEJIANG, CHINA.
Contact person(E-mail): -
Telephone: +86-571-64156812
Fax: 64156010/6120
Emergency telephone Number: +86-571-64156812

2. Hazards identification

GHS classification

Physical hazards Not classified
Health hazards Not classified
Environmental hazards Not classified

GHS label elements

Hazard Pictograms No hazard pictogram is used.
Signal word No signal word is used.
Hazard statement Not applicable.

Precautionary statement

Prevention Not applicable.
Response Not applicable.
Storage Not applicable.
Disposal Not applicable.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Potassium Bicarbonate	298-14-6	99%

4. First Aid Measures

First aid procedures

Eye contact Wash thoroughly with running water. Get medical advice if irritation develops.
Skin contact Wash exposed area with soap and water. Get medical advice if irritation develops.
Inhalation Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion If large amounts were swallowed, give water to drink and get medical advice.

Notes to physician Treat symptoms.

5. Fire Fighting Measure

Flammable properties This product is non-flammable.

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Extinguishing media

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

Unsuitable extinguishing media Not available.

Firefighting equipment/instructions Use self-contained breathing apparatus and protective clothing to avoid exposure to hydrogen chloride and other fumes.

Hazardous combustion products May produce oxides of carbon and the contained metal.

6. Accidental Release Measures

Personal precautions Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions Avoid disposing into drainage/sewer system or directly into the aquatic environment.

Methods for cleaning up Use mechanical handling equipment. After cleaning, flush away traces with water.

7. Handling and Storage

Handling Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes. Avoid inhalation of dust. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

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

8. Exposure Controls / Personal Protection

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Not Available

EMERGENCY LIMITS:

Ingredient	TEEL-1	TEEL-2	TEEL-3
potassium bicarbonate	35 mg/m ³	60 mg/m ³	500 mg/m ³

Ingredient	Original IDLH	Revised IDLH
potassium bicarbonate	Not Available	Not Available

Exposure controls:

Appropriate engineering controls: Use in a well-ventilated area.

Individual protection measures, such as personal protective equipment:

Eye / face protection Wear safety glasses.

Skin protection Suitable protective gloves. Glove material butyl-rubber, PVC, Natural rubber (NR), Polychloroprene with natural-latex liner. Material thickness, 0,5 mm. Break through time > 480 min. Glove material, nitrile rubber (Camatril, Tricotril, Dermatril), Fluorinated rubber (Vitoject) .Material thickness 0,35 - 0,4 mm .Break through time > 480 min.

Wear protective clothing.

Respiratory protection In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear a self contained respiratory apparatus

Note time limit for wearing respiratory protective equipment.

General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical & Chemical Properties

Appearance

Physical state	Solid
Form	Crystals
Color	White
Odor	Odorless
Odor threshold	Not available
pH	8.2
Vapor pressure	Not available
Vapor density	Not available
Boiling point	Not available
Melting point/Freezing point	100 - 120°C (212 - 248F)
Solubility (water)	very soluble (362 g/L(25 °C))
Partition coefficient	Not available
Specific gravity	2.17
Relative density	Not available
Density	2.17 g/cm ³ (20 °C)
Flash point	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	Not available
Decomposition temperature:	> 100 °C
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available

10. Chemical Stability & Reactivity Information

Reactivity	Reacts with acids.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials. Heat, flame, other sources of ignition.
Incompatible materials	Acids.
Hazardous decomposition products	May produce oxides of carbon and the contained metal.
Possibility of hazardous reactions	No dangerous reactions known.

11. Toxicological Information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data:	Not available
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Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat):	> 2000 mg/kg bw
LD50(Dermal, Rabbit):	> 2000 mg/kg bw
LC50(Inhalation, Rat):	> 4.88 mg/L air (analytical) 4.5h
Skin corrosion/Irritation:	Non irritating.
Serious eye damage/irritation:	Non irritating.
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified.
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

12. Ecological Information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	1300 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	630 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	The product is soluble in water.
Results of PBT&vPvB assessment:	Not available.
Other adverse effects:	No known significant effects or critical hazards.

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No

IATA

UN number	Not regulated
UN proper shipping name	Not regulated

Transport hazard class(es) Not regulated

Packing group Not regulated

IMDG

UN number Not regulated

UN proper shipping name Not regulated

Transport hazard class(es) Not regulated

Packing group Not regulated

Environmental hazards No

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Potassium bicarbonate(298-14-6) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory" List.
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16. Other Information

HMIS®ratings Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings Health: 0
Flammability:1
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

Issue date 03-17-2015