



SAFETY DATA SHEET

Product #: I000049

Name of Product:

Revision Date: August 17, 2015

POTASSIUM BICARBONATE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Potassium Bicarbonate
SYNONYMS: Potassium acid carbonate; Carbonic acid, mono-potassium salt.
PRODUCT CODES: I000049

MANUFACTURER: NACHURS ALPINE SOLUTIONS
DIVISION: Marion
ADDRESS: 421 Leader Street, Marion, OH43302, United States

PHONE: 800-622-4877 (USA)
800-265-2268 (CANADA)

EMERGENCY PHONE: United States: Chemtrec: 800-424-9300
Canada: CANUTEC: 1-613-996-6666
I TECH 877-324-4402

CHEMICAL NAME: Potassium Bicarbonate
CHEMICAL FAMILY: Alkali
CHEMICAL FORMULA: KHCO₃

PRODUCT USE: Buffering agent, pH regulator

SECTION 2: HAZARDS IDENTIFICATION

GHS ELEMENTS:

Hazard Classification: Skin Irritation (Category 2)
Eye Irritation (Category 2B)

Pictogram:



Signal Word: Warning.

Hazard Statements: Causes skin irritation.
Causes eye irritation.

Precautionary Statements: Wear protective gloves, eye and face protection.
Wash skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.
If on skin, wash with plenty of water.
If in eyes, rinse cautiously with water for several minutes. Remove contacts if present and easy to do.
Continue rinsing.
Call a poison center or doctor/physician if you feel unwell.
If skin irritation occurs, get medical attention.
If eye irritation persists, get medical attention.

POTENTIAL HEALTH EFFECTS

EYES: May cause moderate irritation, redness and discomfort.
SKIN: May cause mild irritation and discomfort.
INGESTION: May cause irritation.
INHALATION: May cause irritation.

ACUTE HEALTH HAZARDS: N/A

CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

SAFETY DATA SHEET

Product #: I000049

Name of Product: **POTASSIUM BICARBONATE**

Revision Date: August 17, 2015

CARCINOGENICITY:

OSHA: N/A
ACGIH: N/A
NTP: N/A
IARC: N/A
OTHER: N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	Potassium Bicarbonate	20%	CAS# 298-14-6
	Water	80%	CAS# 7732-18-5

SARA 313 REPORTABLE: N/A

OSHA PEL-TWA: N/A
OSHA PEL STEL: N/A
OSHA PEL CEILING: N/A

ACGIH TLV-TWA: N/A
ACGIH TLV STEL: N/A
ACGIH TLV CEILING: N/A

SECTION 4: FIRST AID MEASURES

EYES: Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention.
SKIN: Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention. Wash clothing before reuse.
INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Seek medical attention.
INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY: Nonflammable.

FLAMMABLE LIMITS IN AIR:
(% BY VOLUME) UPPER: N/A
LOWER: N/A

FLASH POINT:
F°: N/A
C°: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE:
F°: N/A
C°: N/A

NFPA HAZARD CLASSIFICATION:
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
OTHER: 0

HMIS HAZARD CLASSIFICATION
HEALTH: 1
FLAMMABILITY: 0

SAFETY DATA SHEET

Product #: I000049

Name of Product: **POTASSIUM BICARBONATE**

Revision Date: August 17, 2015

REACTIVITY: 0
PROTECTION: B

EXTINGUISHING MEDIA: Water, dry chemical, foam or suitable for surrounding material.

SPECIAL FIRE FIGHTING PROCEDURES: Use approved SCBA and full protective gear. Irritating or toxic gases may be generated by thermal decomposition or combustion.

UNUSUAL FIRE AND EXPLOSION HAZARDS: High temperatures or contact with acids may cause this material to decompose with the release of suffocating or toxic gases.

HAZARDOUS DECOMPOSITION PRODUCTS: Large quantities of carbon dioxide in enclosed areas can result in lack of oxygen and possible suffocation.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Confine the spill to a diked area or sump, if possible, and recover as much of the product as possible. Store in suitable containers for reuse or disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in suitable containers made of mild steel, stainless steel, plastic or fiberglass.

OTHER PRECAUTIONS: N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION: Passive or mechanical exhaust sufficient under normal circumstances.

RESPIRATORY PROTECTION: Respiratory protection is not required under normal circumstances. If material is misted or generates carbon dioxide, use appropriate NIOSH approved respirator or self contained breathing apparatus as per 29 CFR 1910.134

EYE PROTECTION: Safety glasses/goggles and full face shield.

SKIN PROTECTION: Rubber gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Always follow good safety and industrial hygienic practices.

EXPOSURE GUIDELINES: See section 3.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, nearly colorless liquid.

ODOR: None.

ODOR THRESHOLD: No data available.

PHYSICAL STATE: Liquid.

pH AS SUPPLIED: 8.0-10.0

SAFETY DATA SHEET

Product #: I000049

Name of Product: **POTASSIUM BICARBONATE**

Revision Date: August 17, 2015

MELTING POINT:

F°: N/A
C°: N/A

FREEZING POINT:

F°: N/A
C°: N/A

BOILING POINT:

F°: >220
C°: >104

EVAPORATION RATE:

N/A

FLASH POINT:

F°: N/A
C°: N/A

METHOD USED:

N/A

EVAPORATION RATE:

N/A

FLAMABILITY:

Not flammable.

FLAMMABLE LIMITS IN AIR:
(% BY VOLUME)

UPPER: N/A
LOWER: N/A

VAPOR PRESSURE (mmHg)

N/A

VAPOR DENSITY (AIR = 1)

N/A

SPECIFIC GRAVITY (H₂O = 1)

1.128-1.152

DENSITY, LBS/GAL:

9.4-9.6

SOLUBILITY IN WATER:

Complete

PARTITION COEFFICIENT:

n-octanol/water – N/A

PERCENT SOLIDS BY WEIGHT:

N/A

PERCENT VOLATILE:

N/A

VOLATILE ORGANIC COMPOUNDS (VOC):

N/A

AUTOIGNITION TEMPERATURE:

N/A

THERMON DECOMPOSITIONS:

N/A

MOLECULAR WEIGHT:

100.11

VISCOSITY:

N/A

SAFETY DATA SHEET

Product #: I000049

Name of Product: **POTASSIUM BICARBONATE**

Revision Date: August 17, 2015

SECTION 10: STABILITY AND REACTIVITY

	STABLE	UNSTABLE
STABILITY:	x	
CONDITIONS TO AVOID (STABILITY):	Extreme heat or contact with acids.	
INCOMPATIBILITY (MATERIAL TO AVOID):	Contact with acids and excessive heat can generate carbon dioxide.	
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Large quantities of carbon dioxide in enclosed areas can result in lack of oxygen and possible suffocation.	
HAZARDOUS POLYMERIZATION:	None reported.	
CONDITIONS TO AVOID (POLYMERIZATION):	N/A	

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: LD50 Oral Rat – 2064 mg/kg (100% basis)
LD50 Dermal Rabbit - >2000 mg/kg (100% basis)
LC50 Inhalation Rat - >4.88 mg/L, 4.5 h (100% basis)

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not allow into drinking water.

LC50 Bluegill sunfish – 1500 mg/L 96 h (100% basis)
LC50 Rainbow trout – 1300 mg/L 96 h (100% basis)
EC50 Daphnia magna – 1200 mg/L 48 h (100% basis)

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Reclaim and reuse as much as possible. Dispose in accordance with all federal, state, and local regulations.

RCRA HAZARD CLASS: N/A

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: Potassium Bicarbonate Solution
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: N/A

Health: 1 Flammability: 0 Reactivity: 0 Specific: None

WATER TRANSPORTATION:

PROPER SHIPPING NAME: Potassium Bicarbonate Solution
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

Health: 1 Flammability: 0 Reactivity: 0 Specific: None

AIR TRANSPORTATION

PROPER SHIPPING NAME: Potassium Bicarbonate Solution
HAZARD CLASS: N/A

SAFETY DATA SHEET

Product #: I000049

Name of Product: **POTASSIUM BICARBONATE**

Revision Date: August 17, 2015

ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A
Health: 1

Flammability: 0 Reactivity: 0 Specific: None

OTHER AGENCIES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): Yes

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: *Technical Services*

DISCLAIMER: The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and NACHURS ALPINE SOLUTIONS will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

"NASi" is a trademark of Nachurs Alpine Solutions.