

# SAFETY DATA SHEET

M25047 - ANSI - EN



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## POTASSIUM BICARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M25047

SDS Revision Date: 11-Nov-2014

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**Company Identification:** Armand Products Company  
469 North Harrison Street  
Princeton, NJ 08543-5297

**24 Hour Emergency Telephone Number:** 1-800-733-3665 or 1-972-404-3228 (USA); CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186

**To Request an SDS:** MSDS@oxy.com or 1-972-404-3245

**Customer Service:** 1-800-522-0540 or 1-609-683-5900

**Product Identifier:** **POTASSIUM BICARBONATE (ANHYDROUS ALL GRADES)**

**Trade Name:** Potassium Bicarbonate USP; ACS and Technical Grades

**Synonyms:** Carbonic acid, monopotassium salt, KBC, Pot bicarb, Potassium acid carbonate, Anhydrous potassium bicarbonate, Potassium hydrogen carbonate

**Product Use:** Fire extinguishing agent, Pharmaceuticals, Healthcare, Food processing, Chemical processing

**Uses Advised Against:** None identified.

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### 2. HAZARDS IDENTIFICATION

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**OSHA REGULATORY STATUS:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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**EMERGENCY OVERVIEW:**

**Color:** White  
**Physical state:** Solid  
**Appearance:** Granular, Powder  
**Odor:** Odorless

**Signal Word:** **WARNING**

**MAJOR HEALTH HAZARDS:** CAUSES EYE IRRITATION. CAUSES MILD SKIN IRRITATION. HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION.

**PRECAUTIONARY STATEMENTS:** Avoid breathing dust. Avoid contact with skin and eyes. Wash skin and contaminated clothing thoroughly after handling. Use only with adequate ventilation. Store in well-ventilated place. Keep container tightly closed.

**ADDITIONAL HAZARD INFORMATION:** Good hygiene and safety practices should be used when handling and working with this material. Good hygiene practices include but are not limited to: wearing suitable gloves and/or eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

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**GHS CLASSIFICATION:**

|   |   |
|---|---|
| GHS: CONTACT HAZARD - SKIN:                   | Category 3 - Causes mild skin irritation  |
| GHS: CONTACT HAZARD - EYE:                    | Category 2B - Causes eye irritation   |
| GHS: SENSITIZATION HAZARD:                    | Not classified as a skin sensitizer per GHS criteria This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction |
| GHS: ACUTE TOXICITY - INHALATION:             | Category 4 - Harmful if inhaled   |
| GHS: ACUTE TOXICITY - ORAL:                   | Not classified as acutely toxic for oral exposure   |
| GHS: ACUTE TOXICITY - DERMAL:                 | Not classified as acutely toxic for dermal exposure   |
| GHS: TARGET ORGAN TOXICITY (SINGLE EXPOSURE): | Category 3 - May cause respiratory tract irritation   |
| GHS: CARCINOGENICITY:                         | This product is not classified as a carcinogen by NTP, IARC or OSHA.  |

**UNKNOWN ACUTE TOXICITY:**

Not applicable. This product was tested as a whole. This information only pertains to untested mixtures.

**GHS SYMBOL:**

Exclamation mark



**GHS SIGNAL WORD:** **WARNING**

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**GHS HAZARD STATEMENTS:****GHS - Health Hazard Statement(s)**

Causes eye irritation  
Causes mild skin irritation  
Harmful if inhaled  
May cause respiratory irritation

**GHS - Precautionary Statement(s) - Prevention**

Avoid breathing dust, fume, gas, mist, vapors, or spray  
Wash thoroughly after handling  
Use only outdoors or in a well-ventilated area

**GHS - Precautionary Statement(s) - Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing  
If eye irritation persists: Get medical advice/attention  
If skin irritation occurs: Get medical advice/attention

**GHS - Precautionary Statement(s) - Storage**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**GHS - Precautionary Statement(s) - Disposal**

Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

**Hazards Not Otherwise Classified (HNOC)**

None Known

See Section 11: TOXICOLOGICAL INFORMATION

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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**Synonyms:** Carbonic acid, monopotassium salt, KBC, Pot bicarb, Potassium acid carbonate, Anhydrous potassium bicarbonate, Potassium hydrogen carbonate

| Component             | Percent [%] | CAS Number |
|-----------------------|-------------|------------|
| Potassium Bicarbonate | 95 - 100    | 298-14-6   |
| Potassium Carbonate   | < 2.5       | 584-08-7   |
| Impurities            | 0 - 2.5     | AT15610    |

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**4. FIRST AID MEASURES**

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**POTASSIUM BICARBONATE (ANHYDROUS ALL GRADES)**

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**INHALATION:** If inhaled and adverse effects occur, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**SKIN CONTACT:** Brush off excess chemical. Flush contaminated areas with water. If skin irritation occurs: Get medical advice/ attention.

**EYE CONTACT:** Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**INGESTION:** No hazard expected. If large amounts are ingested, get medical advice/attention.

**Inhalation (Breathing):** Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

**Skin:** Skin Irritation: Exposure to skin may cause redness, or irritation.

**Eye:** Eye Irritation: Eye exposure may cause irritation, and redness to the eye lids, conjunctiva.

**Ingestion (Swallowing):** No effects identified.

**Delayed Symptoms/Effects:**

- No delayed / chronic effects have been identified

**Interaction with Other Chemicals Which Enhance Toxicity:** None known.

**Medical Conditions Aggravated by Exposure:** May aggravate preexisting conditions, such as: eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin.

**Protection of First-Aiders:** Avoid contact with skin and eyes. Do not breathe dust. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

**Notes to Physician:** This material dissociated into potassium and bicarbonate ions upon contact with water.

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## 5. FIRE-FIGHTING MEASURES

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**Fire Hazard:** Negligible fire hazard.

**Extinguishing Media:** Use extinguishing agents appropriate for surrounding fire.

**Fire Fighting:** Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**Hazardous Combustion Products:** Oxides of carbon, Potassium oxides, Heating above 100 °C may cause dangerous levels of carbon dioxide gas to be present in the atmosphere

**Sensitivity to Mechanical Impact:** Not sensitive.

**Sensitivity to Static Discharge:** Not sensitive.

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**Lower Flammability Level (air):** Not flammable

**Upper Flammability Level (air):** Not flammable

**Flash point:** Not flammable

**Auto-ignition Temperature:** Not applicable

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:**

Avoid breathing dust. Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.

**Methods and Materials for Containment and Cleaning Up:**

Shovel dry material into suitable container. Flush spill area with water, if appropriate.

**Environmental Precautions:**

Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling:**

Avoid breathing dust. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Do not reuse containers. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS.

**Safe Storage Conditions:**

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Material is very hygroscopic. Store in a cool, dry area. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

**Incompatibilities/ Materials to Avoid:**

Lime, acids, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Regulatory Exposure Limit(s):** As listed below.

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*OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit*

**NON-REGULATORY EXPOSURE LIMIT(S):** As listed below.

| Component             | CAS Number | ACGIH TWA | ACGIH STEL | ACGIH Ceiling | OSHA TWA (Vacated) | OSHA STEL (Vacated) | OSHA Ceiling (Vacated) |
|-----------------------|------------|-----------|------------|---------------|--------------------|---------------------|------------------------|
| Potassium Bicarbonate | 298-14-6   | -----     | -----      | -----         | -----              | -----               | -----                  |

- The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

**ENGINEERING CONTROLS:** Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT:**

**Eye Protection:** Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles.

**Skin and Body Protection:** When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®. When potential for contact with wet material exists, wear Tychem® or similar chemical protective suit. Contaminated clothing should be removed and laundered before reuse.

**Hand Protection:** Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

**Protective Material Types:** Neoprene, Nitrile, Butyl rubber, Natural rubber

**Respiratory Protection:** A NIOSH approved respirator with high efficiency particulate air (HEPA) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. When an air purifying respirator is not adequate for spills and/or emergencies of unknown concentrations, an approved self-contained breathing apparatus operated in the pressure demand mode is required. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                       |                  |
|-----------------------|------------------|
| <b>Physical state</b> | Solid            |
| <b>Appearance:</b>    | Granular, Powder |
| <b>Color:</b>         | White            |

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|   |  |
|---|--|
| <b>Odor:</b>  | Odorless   |
| <b>Odor Threshold [ppm]:</b>                          | No data available. No odor warning properties.             |
| <b>Molecular Weight:</b>                              | 100.12   |
| <b>Molecular Formula:</b>                             | KHCO <sub>3</sub>  |
| <b>Decomposition Temperature:</b>                     | 212 - 392 °F (100 - 200 °C)                                |
| <b>Boiling Point/Range:</b>                           | Not applicable   |
| <b>Freezing Point/Range:</b>                          | Not applicable.  |
| <b>Melting Point/Range:</b>                           | 212 - 392 °F (100 - 200 °C) (decomposes)                   |
| <b>Vapor Pressure:</b>                                | Not applicable   |
| <b>Relative Density - Specific Gravity (water=1):</b> | 2.17   |
| <b>Density:</b>                                       | 68 lbs/ft <sup>3</sup>                                     |
| <b>Water Solubility:</b>                              | 23% @ 20 °C  |
| <b>pH:</b>  | slightly basic in solution; pH 8.2 for 1% solution at 25°C |
| <b>Evaporation Rate (ether=1):</b>                    | Not applicable   |
| <b>Partition Coefficient (n-octanol/water):</b>       | No data available  |
| <b>Flash point:</b>                                   | Not flammable  |
| <b>Flammability (solid, gas):</b>                     | Not flammable  |
| <b>Lower Flammability Level (air):</b>                | Not flammable  |
| <b>Upper Flammability Level (air):</b>                | Not flammable  |
| <b>Auto-ignition Temperature:</b>                     | Not applicable   |
| <b>Viscosity:</b>                                     | Not applicable to solids                                   |
| <b>Hygroscopic:</b>                                   | Yes  |

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** Not reactive under normal temperatures and pressures.

**Chemical Stability:** Stable at normal temperatures and pressures.

**Possibility of Hazardous Reactions:**

Temperatures above 100 °C (212 °F). Avoid contact with lime to prevent formation of corrosive potassium hydroxide (KOH).

**Conditions to Avoid:**

(e.g., static discharge, shock, or vibration) - None known.

**Incompatibilities/ Materials to Avoid:**

Lime, acids, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

**Hazardous Decomposition Products:** Potassium oxides, oxides of carbon, Heating above 100 °C may cause dangerous levels of carbon dioxide gas to be present in the atmosphere

**Hazardous Polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**POTASSIUM BICARBONATE (ANHYDROUS ALL GRADES)**

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**TOXICITY DATA:****PRODUCT TOXICITY DATA: POTASSIUM BICARBONATE (ANHYDROUS ALL GRADES)**

|   |   |   |
|---|---|---|
| <b>LD50 Oral:</b><br>2064 mg/kg oral-rat LD50 | <b>LD50 Dermal:</b><br>>2000 gm/kg skin-rabbit LD50 | <b>LC50 Inhalation:</b><br>> 4.88 mg/L (4.5 hr - Rat) |
|---|---|---|

**COMPONENT TOXICITY DATA:**

| <b>Component</b>                  | <b>LD50 Oral:</b> | <b>LD50 Dermal:</b> | <b>LC50 Inhalation:</b> |
|-----------------------------------|-------------------|---------------------|-------------------------|
| Potassium Bicarbonate<br>298-14-6 | No data           | No data             | No data                 |
| Potassium Carbonate<br>584-08-7   | 1870 mg/kg (Rat)  | -----               | -----                   |

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**POTENTIAL HEALTH EFFECTS:**

- Eye contact:** May cause eye irritation.
- Skin contact:** May cause mild skin irritation.
- Inhalation:** May cause respiratory tract irritation.
- Ingestion:** No known effects.
- Chronic Effects:** No chronic effects are known.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

Listed below.

**Inhalation (Breathing):** Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

**Skin:** Skin Irritation: Exposure to skin may cause redness, or irritation.

**Eye:** Eye Irritation: Eye exposure may cause irritation, and redness to the eye lids, conjunctiva.

**Ingestion (Swallowing):** No effects identified.

**ACUTE TOXICITY:**

This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction.

**Interaction with Other Chemicals Which Enhance Toxicity:** None known

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**GHS HEALTH HAZARDS:****GHS: ACUTE TOXICITY - ORAL:** Not classified as acutely toxic for oral exposure.

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**GHS: ACUTE TOXICITY - DERMAL:** Not classified as acutely toxic for dermal exposure.

**GHS: ACUTE TOXICITY - INHALATION:** Category 4 - Harmful if inhaled.

**GHS: CONTACT HAZARD - SKIN:** Category 3 - Causes mild skin irritation

**GHS: CONTACT HAZARD - EYE:** Category 2B - Causes eye irritation

**GHS: SENSITIZATION HAZARD:** Not classified as a skin sensitizer per GHS criteria. This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction.

**GHS: CARCINOGENICITY:**  
This product is not classified as a carcinogen by NTP, IARC or OSHA.

**SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):**  
Category 3 - Respiratory Tract Irritation

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## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY DATA:

**Fish Toxicity:**

1500 mg/L 96 hour(s) LC50 Bluegill sunfish (practically nontoxic); 1300 mg/L 96 hour(s) LC50 Rainbow trout (practically nontoxic)

**Invertebrate Toxicity:**

1200 mg/L 48 hour(s) EC50 Daphnia magna (practically nontoxic)

### FATE AND TRANSPORT:

**BIODEGRADATION:** This material is inorganic and not subject to biodegradation.

**PERSISTENCE:** This material is believed not to persist in the environment.

**BIOCONCENTRATION:** This material is believed not to bioaccumulate.

**MOBILITY IN SOIL:** No data available.

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## 13. DISPOSAL CONSIDERATIONS

**Waste from material:**

Reuse or reprocess, if possible. Dispose in accordance with all applicable regulations.

## POTASSIUM BICARBONATE (ANHYDROUS ALL GRADES)

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### Container Management:

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

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## 14. TRANSPORT INFORMATION

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### LAND TRANSPORT

#### U.S. DOT 49 CFR 172.101:

Status: Not regulated

#### CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

Status: Not regulated

MARITIME TRANSPORT (IMO / IMDG) Not regulated

Status - IMO / IMDG: Not Regulated

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## 15. REGULATORY INFORMATION

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### U.S. REGULATIONS

#### OSHA REGULATORY STATUS:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

Not regulated.

#### SARA EHS Chemical (40 CFR 355.30)

Not regulated

#### EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):

None

#### EPCRA SECTION 313 (40 CFR 372.65):

Not regulated.

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**OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):**

Not regulated

### NATIONAL INVENTORY STATUS

**U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):** All components are listed or exempt.

**TSCA 12(b):** This product is not subject to export notification.

**Canadian Chemical Inventory:** All components of this product are listed on either the DSL or the NDSL.

### STATE REGULATIONS

There are no applicable state regulations for this product or its components.

### CANADIAN REGULATIONS

All components of this product are listed on either the DSL or the NDSL.

### **WHMIS - Classifications of Substances:**

• Not regulated

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## 16. OTHER INFORMATION

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**Prepared by:** OxyChem Corporate HESS - Product Stewardship

**Rev. Date:** 11-Nov-2014

**HMIS: (SCALE 0-4)** (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

**Health Rating:** 1

**Flammability Rating:** 0

**Reactivity Rating:** 0

**NFPA 704 - Hazard Identification Ratings (SCALE 0-4)**

Not classified as hazardous according to the National Fire Protection Association (NFPA) system.

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**POTASSIUM BICARBONATE (ANHYDROUS ALL GRADES)**

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**Reason for Revision:**

- Three year review
- Changed the SDS format to meet the GHS requirements of the revised 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Updated 24 Hour Emergency Telephone Number: SEE SECTION 1
- Product Identifier has been added or updated: SEE SECTION 1
- Added synonym(s): SEE SECTION 1
- Updated Uses Advised Against information: SEE SECTION 1
- Added OSHA Status: SEE SECTION 2
- Added GHS Information: SEE SECTION 2
- Added synonym(s): SEE SECTION 3
- Updated First Aid Measures: SEE SECTION 4
- Modified Fire Fighting Measure Recommendations: SEE SECTION 5
- Revised Accidental Release Measures: SEE SECTION 6
- Revised Handling and Storage Recommendations: SEE SECTION 7
- PPE recommendations have been modified: SEE SECTION 8
- Updated Physical and Chemical Properties. SEE SECTION 9
- Stability and Reactivity recommendations: SEE SECTION 10
- Toxicological Information has been revised: SEE SECTION 11
- Updated Disposal Considerations. SEE SECTION 13
- Regulatory Information Changes: SEE SECTION 15
- Added SDS Revision Date: SEE SECTION 16

**IMPORTANT:**

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees

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**End of Safety Data Sheet**