ENPAC

# Material Safety Data Sheet

# SODIUM BICARBONATE

## 1. PRODUCT AND COMPANY IDENTIFICATION

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| **Product Name** | SODIUM BICARBONATE |
| **Product Identifier** | Bicarbonate of Soda |
| **Product Family** | Calcium Sequester |
| **Manufactured For** | ENPAC, LLC 34355 Melinz Parkway, Eastlake, OH 44095 |
| **Emergency Contact Information** | (800) 424-9300 |

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** White crystalline powder. Odourless. No significant health or environmental effects associated with this material. Not a fire hazard.

### Potential Health Effects

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| **Inhalation** | None known. |
| **Skin Contact** | Not a skin irritant. |
| **Eye Contact** | Not an eye irritant. |
| **Ingestion** | Material is practically non-toxic. Small amounts (1-2 tablespoons) swallowed during normal handling operations are not likely to cause injury as long as the stomach is not overly full; swallowing larger amounts may produce systemic alkalosis and expansion in extracellular fluid volume with edema. |
| **Effects of Long-Term (Chronic) Exposure** | Only known subchronic effect is that of a marked systemic alkalosis. |
| **Carcinogenicity** | Not classified as carcinogenic by NTP, IARC, OSHA, ACGIH or NIOSH. |
| **Teratogenicity / Embryotoxicity** | Based on published studies on its effects in animals and humans, sodium bicarbonate is not teratogenic or genotoxic. |

### Potential Environmental Effects

It is good practice to prevent releases into the environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Concentration % | Other Identifiers |
|---|---|---|---|
| Sodium bicarbonate | 144-55-8 | 100 | |

## 4. FIRST AID MEASURES

### First Aid Procedures

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| **Inhalation** | Move victim to fresh air. Call a Poison Centre or doctor if the victim feels unwell. |
| **Skin Contact** | Immediately wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 15-20 minutes. If irritation or pain persists, see a doctor. |
| **Eye Contact** | Check for and remove contact lenses. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If irritation |

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| | or pain persists, see a doctor. |
| **Ingestion** | If conscious give 2 to 4 glasses of water to drink but DO NOT induce vomiting. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Immediately call a Poison Centre or doctor. |
| **Note to Physicians** | Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema. |

## 5. FIRE FIGHTING MEASURES

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| **Flammable Properties** | Does not burn. |
| **Suitable Extinguishing Media** | Not combustible. Use extinguishing agent suitable for surrounding fire. |
| **Specific Hazards Arising from the Chemical** | Carbon dioxide may be generated. Carbon dioxide is an asphyxiant at levels over 5% w/w. Sodium oxide, another thermal decomposition product existing at temperatures above 850°C (1562°F), is a respiratory, eye and skin irritant. Avoid inhalation, eye and skin contact with sodium oxide dusts. |
| **Protective Equipment and Precautions for Firefighters** | Firefighters may enter the area if positive pressure SCBA and full Bunker Gear is worn. |

## 6. ACCIDENTAL RELEASE MEASURES

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| **Personal Precautions** | Use the Personal Protective Equipment recommended in Section 8 of this MSDS. |
| **Environmental Precautions** | It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. |
| **Methods for Containment and Clean-up** | Use appropriate safety equipment. Small spills, sweep up and put into approved DOT containers for disposal or re-use. Large spills, do not allow to enter waterways, sweep or shovel into approved DOT containers for re-use or disposal. Wash away small uncontaminated amounts of residue with water. |

## 7. HANDLING AND STORAGE

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| **Handling** | Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. |
| **Storage** | Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from incompatible materials. Sodium Bicarbonate reacts with acids to yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and carbon dioxide and oxygen levels have been determined to be safe. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| **Exposure Guideline Comments** | Airborne exposure limits: None established. |
| **Engineering Controls** | Use general room dilution or local exhaust ventilation when excessive dust is expected in the work environment. |

### Personal Protective Equipment (PPE)

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| **Eye/Face Protection** | Wear safety glasses when handling bulk material or when dusts are generated. |
| **Skin Protection** | Wear protective clothing as required to prevent contact. Aprons should be worn where splashing may occur when working with solutions. General purpose gloves for handling dry product; impervious gloves when working with solutions. |
| **Respiratory Protection** | Dust safety masks are recommended where concentration of total dust is more than 10 mg/m³. |
| **General Hygiene Considerations** | Handle in accordance with good industrial hygiene and safety practice. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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| **Physical State** | Solid |
| **Appearance** | White crystalline powder. |
| **Odour** | Odourless |
| **Molecular Formula** | NaHCO3 |
| **Molecular Weight** | 84.02 |
| **Boiling Point** | Not applicable |
| **Melting Point** | Not applicable |
| **Freezing Point** | Not applicable |
| **Relative Density (water = 1)** | 2.16 |
| **Bulk Density** | 62 lb/ft3 (993 kg/m3) |
| **Solubility in Water** | Moderately soluble (1-10%) |
| **pH** | 8.2 (1% solution) |
| **Vapour Pressure** | Not applicable |
| **Vapour Density (air = 1)** | Not applicable |

## 10. STABILITY AND REACTIVITY

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| **Chemical Stability** | Normally stable. |
| **Conditions to Avoid** | Temperatures above 150.0 °F (65.6 °C) |
| **Incompatible Materials** | Reacts with acids to yield carbon dioxide. May also yield free caustic in the presence of lime dust (CaO) and moisture (i.e. water, perspiration). Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy may occur. |
| **Hazardous Decomposition Products** | Heating above 100°C (212°F) may cause dangerous levels of carbon dioxide gas to be present in confined spaces. Yields sodium oxide if exposed to temperatures above 850°C (1562°F). Avoid inhalation, eye and skin contact with sodium oxide. |
| **Possibility of Hazardous Reactions** | Not applicable. |

## 11. TOXICOLOGICAL INFORMATION

LC50 Inhalation Rat: >4.74 mg/L

LD50 Oral Rat: 7.3 g/kg

**Skin Irritation/Corrosion**

Not a skin irritant or dermally toxic.

**Eye Irritation/Corrosion**

The material is minimally irritating to unwashed eyes and practically non-irritating to washed eyes (rabbits).

**Respiratory and/or Skin Sensitization**

Not a contact sensitizer.

**Carcinogenicity**

IARC: Group 3 – Not classifiable as to its carcinogenicity to humans. ACGIH®: A4 – Not classifiable as a human carcinogen. NTP: Not specifically listed. OSHA: Not specifically listed.

No information was located for: Effects of Long-Term (Chronic) Exposure, Teratogenicity / Embryotoxicity, Reproductive Toxicity, Mutagenicity, Toxicologically Synergistic Materials

## 12. ECOLOGICAL INFORMATION

**General Comments**

AQUATIC TOXICITY:
EC50 Daphnids: 4100 mg/L
LC50 Bluegill: 7100 mg/L
LC50 Rainbow Trout: 7700 mg/L.

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| **Persistence and Degradability** | This product is not expected to persist in the environment.<br>This product is inorganic and not subject to biodegradation. |
| **Bioaccumulation / Accumulation** | This product is not expected to bioaccumulate. |

## 13. DISPOSAL CONSIDERATIONS

Bury in a secured landfill in accordance with all local, provincial/state and federal environmental regulations. Empty containers may be incinerated or discarded as general trash.

## 14. TRANSPORT INFORMATION

### Shipping Information

Not regulated under US DOT Regulations.

### Other Transport Information

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| **Special Shipping Information** | Not applicable |

## 15. REGULATORY INFORMATION

### USA

**US OSHA Regulatory Status**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200 (1994)).

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

**Additional USA Regulatory Lists**

- Clean Air Act Section 611: Material neither contains nor is it manufactured with ozone depleting substances (ODS).
- Federal Water Pollution Control Act (40 CFR 401.15): Material contains no intentionally added or detectable (contaminant) levels of EPA priority toxic pollutants.
- CERCLA Reportable Quantity: None
- RCRA: Not a hazardous material or a hazardous waste by listing or characteristic.
- SARA TITLE III:
  - Section 302, Extremely Hazardous Substances: None
  - Section 311/312, Hazardous Categories: Non-hazardous
  - Section 313, Toxic Chemicals: None
- Contains no Volatile Organic Compounds (VOCs).

## 16. OTHER INFORMATION

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| **MSDS Prepared For** | ENPAC, LLC |
| **Date of Preparation** | January 01, 2018 |
| **Disclaimer** | This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet. |

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME:** UNIVERSAL POLYPROPYLENE ABSORBENTS

**PRODUCT USE:** SORBENT MEDIA USED TO ABSORB LEAKS AND SPILLS WHICH INCLUDE BUT NOT LIMITED TO OIL, WATER, COOLANTS AND SOLVENTS

**SPECIFIC PRODUCT TYPE:** ABSORBENT PADS

**COMPANY INFORMATION:** ENPAC, LLC
34355 MELINZ DRIVE
EASTLAKE, OH 44095

**PHONE:** 440-975-0070
**FAX:** 440-975-0047
**EMER:** 440-975-0070

## SECTION 2: HAZARDS IDENTIFICATION

THIS PRODUCT IS NOT DANGEROUS IN ITS UNUSED FORM AND CONTAINS NO HAZARDOUS INGREDIENTS. NOT WHMIS REGULATED.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| MATERIALS | PERCENT | CAS # |
|---|---|---|
| **POLYPROPYLENE:** | >97% | 9003-07-0 |
| **SURFACTANT:** | < 1% | 9004-34-6 |
| **GRAY PIGMENT** | < 1% | NONE |
| **YELLOW PIGMENT** | < 1% | NONE |
| **GREEN PIGMENT** | < 1% | NONE |
| **ORANGE PIGMENT** | < 1% | NONE |

## SECTION 4: FIRST AID MEASURES

NO SPECIAL PROCEDURES REQUIRED

## SECTION 5: FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** >315 DEGREES CELCIUS ( ASTM D93)

**FLAMMABLE LIMITS:** NOT YET DETERMINED

**EXTINGUISHING MEDIA:** WATER, FOAM, CO2, DRY CHEMICAL

**SPECIAL FIRE FIGHTING PROCEDURES:** STANDARD PROCEDURE FOR CLASS A FIRES

**UNUSUAL FIRE AND EXPLOSION HAZARD:** SOME CARBON MONOXIDE UNDER LEAN OXYGEN CONDITIONS

## SECTION 6: ACCIDENTAL RELEASE MEASURES

NO SPECIAL STEPS ARE TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

## SECTION 7: HANDLING AND STORAGE

STORE IN DRY AREA. DO NOT STORE NEAR OPEN FLAME, HIGH HEAT OR STRONG OXIDANTS. POLYPROPYLENE, WHEN HEATED, BECOMES VERY STICKY AND WILL BURN. USE SELF-CONTAINED AIR MASK TO ENTER SMOKY AREA IN THE EVENT OF FIRE.

## SECTION 8: EXPOSUR CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

**EXPOSURE LIMITS: OSHA PEL: N/A** **ACGIH TLV: N/A**

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| **RESPIRATORY PROTECTION:** | NONE REQUIRED | |
| **VENTILATION:** | NONE REQUIRED | |
| **PROTECTIVE GLOVES:** | NONE REQUIRED | ONLY IF MOLTAN |
| **EYE PROTECTION:** | NONE REQUIRED | |
| **OTHER PROTECTIVE EQUIPMENT (SPECIFY):** | NONE REQUIRED | |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**COLOR:** GRAY, YELLOW, GREEN, ORANGE

**DENSITY:** 0.04 - 0.06 gram/cc

**ODOR:** CITRUS (IN ORANGE ABSORBENT)

**SPECIFIC GRAVITY:** 0.88 - 0.92

**FLASH POINT:** NOT APPLICABLE

**BOILING POINT:** NOT APPLICABLE

**MELTING POINT:** > 160 DEGREES CELSIUS

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| **SOLUBILITY IN WATER:** | INSOLUABLE |
| **PERCENT VOLATILE:** | NOT APPLICABLE |
| **EVAPORATION RATE:** | NOT APPLICABLE |
| **VAPOR PRESSURE ( mm Hg):** | NOT APPLICABLE |
| **VAPOR DENSITY (Air = 1):** | NOT APPLICABLE |
| **AUTO IGNITION TEMPERATURE** | >675 DEGREES FAHRENHEIT |

## SECTION 10: STABILITY AND REACTIVITY DATA

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| **STABILITY:** | STABLE |
| **INCOMPATIBILITY (conditions to avoid):** | NONE |
| **INCOMPATIBILITY (materials to avoid):** | NITRIC ACID, PERCHLORIC ACID, SULFURIC ACID OR 98% SULFURIC ACID |
| **HAZARDOUS DECOMPOSITON:** | WHEN HEATED, IT MAY EMIT TOXIC |
| **HAZARDOUS POLYMERAZATION:** | WILL NOT OCCUR |

## SECTION 11: TOXOCOLOGICAL INFORMATION

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|---|---|
| **HEALTH HAZARDS (acute or cronic):** | NONE |
| **SIGNS OR SYSMPTOMS OF EXPOSURE:** | NONE |
| **MEDICAL CONDITIONS GENERRALLY AGGRAVATED BY EXPOSURE:** | NONE |
| **DATE ISSUED:** | January 1, 2018 |
| **PREPARED BY:** | ENPAC, LLC |

## SECTION 12 TO SECTION 15 NOT APPLICABLE

## SECTION 16: OTHER INFORMATION

**SDS PREPARATION DATE: January 1, 2018**

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