

# MATERIAL SAFETY DATA SHEET

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## I-PRODUCT IDENTIFICATION

### PH HOLD

PRODUCT CODE:

CHEMICAL FORMULATION:

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: FLAMMABILITY: REACTIVITY:  
PERSONAL PROTECTION-B

HAZARD RATING: 4-Extreme; 3-High; 2-Moderate; 1-Slight; 0-Insignificant

## II-HAZARDOUS INGREDIENTS

HAZARDOUS	CAS	WT. %	EC. NO.	EC CLASS
SODIUM BICARBONATE	144-55-8	100	205-633-8	NOT CLASSIFIED AS HAZARDOUS

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4)

355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40CFR 372).

## III-PHYSICAL DATA

ODOR: ODORLESS

APPEARANCE: WHITE, GRANULAR SOLID

AUTOIGNITION TEMPERATURE: N/A

BOILING POINT: N/A

COEFFICIENT OF OIL/WATER: N/A

DENSITY/WEIGHT PER VOLUME: 0.88 g/ml

EVAPORATION RATE: NO APPLICABLE (Butyl Acetate =1)

MELTING POINT: DECOMPOSES

pH: 8.3 (1% SOLUTION)

ODOR THRESHOLD: N/A

PERCENT VOLITILE: N/A

OXIDIZING PROPERTIES: N/A

SOLUBILITY IN WATER: % BY WT. @ 20°C(68°F): 9.0

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SPECIFIC GRAVITY: 2.20(water=1)

## IV-FIRE AND EXPLOSION HAZARD

FLASH POINT (°F): NON-COMBUSTIBLE

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: WATER, WATER FOG, CARBON DIOXIDE (CO<sub>2</sub>), DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARD: NONE

## V-REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY: REACTS WITH ACIDS TO RELEASE CARBON  
DIOXIDE GAS AND HEAT.

CONDITIONS TO AVOID: CONTACT WITH ACIDS EXCEPT UNDER  
CONTROLLED CONDITIONS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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**VI-HEALTH AND HAZARD DATA**

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**ACUTE EFFECTS FROM OVEREXPOSURE:** THIS PRODUCT, WHEN DRY, IS GENERALLY NON-IRRITATING TO INTACT SKIN. HOWEVER, WHEN MOISTURE IS PRESENT, IT CAN BE IRRITATING TO DAMAGED SKIN AND CREATE IRRITATION AFTER LONG EXPOSURES. THIS PRODUCT IS APPROVED FOR USE AS A FOOD INGREDIENT AND IS GENERALLY RECOGNIZED AS SAFE (GRAS). NO SIGNIFICANT ACUTE TOXICOLOGICAL EFFECTS EXPECTED.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** ADMINISTRATION OF LARGE DOSES OF SODIUM BICARBONATE TO PATIENTS WITH RENAL INSUFFICIENCY CAN PRODUCE SYSTEMIC ALKALOSIS.

**TOXICOLOGICAL INFORMATION****IF IN EYES:** NON-IRRITATING**IF ON SKIN:** NON-IRRITATING**DERMAL LD<sub>50</sub>:** NO DATA AVAILABLE FOR THE PRODUCT**ORAL LD<sub>50</sub>:** 20% SLURRY: 4,300 mg/kg (rat) 50% SLURRY: 6,000 mg/kg (rat)**INHALATION LC<sub>50</sub>:** NO DATA AVAILABLE FOR THE PRODUCT**TARGET ORGANS:** NONE**FIRST AID MEASURES****EYES:** FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION OCCURS AND PERSISTS**SKIN:** WASH WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION OCCURS AND PERSISTS.**INGESTION:** DRINK PLENTY OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF ANY DISCOMFORT PERSISTS, OBTAIN MEDICAL ATTENTION.**INHALATION:** REMOVE TO FRESH AIR, IF BREATHING DIFFICULTY OR DISCOMFORT OCCURS AND PERSISTS, OBTAIN MEDICAL ATTENTION.**NOTES TO MEDICAL DOCTOR:** INTERNAL TOXICITY IS LOW. TREATMENT IS SYMPTOMATIC AND SUPPORTIVE.

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**VII-SPILL AND LEAK PROTECTION**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** THIS PRODUCT IF SPILLED; CAN BE RECOVERED AND RE-USED IF CONTAMINATION DOES NOT PRESENT A PROBLEM. VACUUM OR SWEEP UP THE MATERIAL. IF THE SPILLED PRODUCT IS UNUSABLE DUE TO CONTAMINATION. CONSULT STATE OR FEDERAL ENVIRONMENTAL AGENCIES FOR ACCEPTABLE DISPOSAL PROCEDURES AND LOCATIONS.

**WASTE DISPOSAL METHOD:** DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

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**VIII – SPECIAL PROTECTION INFORMATION**

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**VENTILATION:** USE GENERAL ROOM DILUTION OR LOCAL EXHAUST WHEN EXCESSIVE DUST IS EXPECTED IN WORK ENVIRONMENT.

**RESPIRATORY PROTECTION:** WHENEVER DUST IN THE WORKER'S BREATHING ZONE CANNOT BE CONTROLLED WITH VENTILATION OR OTHER ENGINEERING MEANS, WORKERS SHOULD WEAR RESPIRATORS OR DUST MASKS APPROVED BY NIOSH,MSHA,EU,CEN OR COMPARABLE CERTIFICATION ORGANIZATION TO PROTECT THEM AGAINST AIRBORNE DUST.

**EYES AND FACE:** APPROPRIATE EYE AND FACE PROTECTION EQUIPMENT (ANSI Z87 APPROVED) SHOULD BE SELECTED FOR THE PARTICULAR USE INTENDED FOR THIS MATERIAL. SAFETY GLASSES WITH SIDE SHIELDS ARE RECOMMENDED.

**PROTECTIVE CLOTHING:** DRY PRODUCT IS GENERALLY NON-IRRITATING TO INTACT SKIN. HOWEVER THIS PRODUCT CAN BE IRRITATING WHERE SKIN HAS BEEN DAMAGED AND CAN CREATE SKIN IRRITATION AFTER LONG EXPOSURES WHEN MOISTURE IS PRESENT. UNDER SUCH CONDITIONS, GLOVES AND LONG SLEEVED CLOTHING ARE RECOMMENDED TO MINIMIZE SKIN CONTACT.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** USE AIR CONVEYING/MECHANICAL SYSTEMS FOR BULK TRANSFER TO STORAGE. FOR MANUAL HANDLING OR BULK TRANSFER USE MECHANICAL VENTILATION TO REMOVE AIRBORNE DUST FROM RAIL CAR, SHIP OR TRUCK. KEEP MATERIAL OUT OF LAKES, STREAMS, PONDS AND SEWER DRAINS. STORE IN COOL DRY AREA AWAY FROM ACIDS.

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