

ALL-CLEAR ALKALINITY SPA ALKALINITY



MATERIAL SAFETY DATA 144 55 8 NFPA Designation 704

SODIUM BICARBONATE

RATINGS:

DEGREE OF HAZARD

FIRE -0

HEALTH-0

REACTIVITY-0

SPECIFIC HAZARD-

EMERGENCY TELEPHONE NOS:

CHEMTREC (800) 424-9300

MEDICAL (303) 595-9048

OTHER

4=EXTREME

3=HIGH

2=MODERATE

1=SLIGHT

0=INSIGNIFICANT

REVISION: 01

EFFECTIVE: 06/50/91

PRINTED: 04/13/92

PREPARED FOR USE BY ..... PLEASANTON

IDENTIFICATION

INFORMATION PROVIDED BY: FMC WYOMING CORPORATION
1735 MARKET ST.
PHILADELPHIA, PA 19103
(215) 299-6000

CONTENTS

LATEST REVISIONS NOTED BY BOLD PRINT FOR THIRTY
DAYS FROM DATE OF REVISION.

PRODUCT INFORMATION

SYNONYMS ..... BAKING SODA, BICARBONATE OF SODA
SHIPPING NAME - DOT ..... NOT APPLICABLE
IATA ..... NOT APPLICABLE
IMDG ..... NOT APPLICABLE
FORMULA ..... NAHC03
CHEMICAL FAMILY ..... ALKALI
PRODUCT USES ..... LEAVENING AGENT, CLEANER INGREDIENT,
BATH SALT INGREDIENT. WATER SOFTENER.
DIAPER RINSE INGREDIENT, FEED ADDITIVE.

PRECAUTIONARY INFORMATION

PRECAUTIONARY STATEMENT ..... NOT HAZARDOUS ACCORDING TO OSHA OR
(PLEASE USE THIS STATEMENT CANADIAN WHMIS.
TO SATISFY THE IN-PLANT
LABELING REQUIREMENTS
OF THE OSHA HAZARD
COMMUNICATIONS STANDARD
29CFR 1910.1200)

INGREDIENTS

# AND COMPONENT ..... 144-55-8 SODIUM BICARBONATE

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===== INGREDIENTS =====

CANADIAN PRODUCT  
IDENTIFICATION NUMBER ..... 2811

===== PHYSICAL DATA =====

MELTING/ FREEZING POINT ..... DECOMPOSES  
BOILING POINT ..... NOT APPLICABLE  
VAPOR PRESSURE ..... NIL  
VAPOR DENSITY (AIR=1) ..... NOT APPLICABLE  
ROOM TEMPERATURE ..... WHITE GRANULAR SOLID  
APPEARANCE AND STATE  
ODOR ..... ODORLESS  
SPECIFIC GRAVITY (H<sub>2</sub>O=1) ..... 2.20  
SOLUBILITY IN H<sub>2</sub>O % BY WT ..... 9.6 % (20°C)  
% VOLATILES BY VOLUME ..... NIL  
EVAPORATION RATE  
(BUTYL ACETATE=1) ..... NOT APPLICABLE  
PH (AS IS) ..... NOT APPLICABLE  
PH (1 % SOLUTION) ..... 8.1  
ODOR THRESHOLD ..... NOT APPLICABLE  
DENSITY (GMS/ML) ..... 0.88 AVERAGE  
COEFF. WATER/OIL DIST ..... NOT APPLICABLE

===== FIRE, EXPLOSION AND REACTIVITY DATA =====

FLASH POINT ..... NON COMBUSTABLE  
AUTOIGNITION TEMPERATURE ..... NOT APPLICABLE  
FLAMMABLE LIMITS UPPER ..... NOT APPLICABLE  
(AIR) LOWER ..... NOT APPLICABLE  
EXTINGUISHING MEDIA ..... ALL  
SPECIAL FIREFIGHTING ..... NONE  
PROCEDURES

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===== FIRE, EXPLOSION AND REACTIVITY DATA =====

DEGREE OF FIRE AND ..... NONE  
EXPLOSION HAZARD:  
STABILITY: ..... STABLE  
HAZARDOUS POLYMERIZATION: ..... WILL NOT OCCUR  
CONDITIONS TO AVOID: ..... CONTACT WITH ACIDS EXCEPT UNDER CONTROLLED  
CONDITIONS.  
CARBON DIOXIDE GAS CAN FORM IN CONFINED  
SPACES OR TANKS WHEN ALKALINE PRODUCTS  
CONTACT ACID PRODUCTS.  
MAJOR CONTAMINANTS THAT: ..... NONE  
CONTRIBUTE TO INSTABILITY  
INCOMPATIBILITY: ..... REACTS WITH ACIDS TO RELEASE CARBON  
DIOXIDE GAS HEAT.  
HAZARDOUS DECOMPOSITION: ..... NONE  
PRODUCTS  
SENSITIVITY TO MECH: ..... NONE  
IMPACT  
SENSITIVITY TO STATIC: ..... NONE  
DISCHARGE

===== ROUTES OF EXPOSURE =====

EYE CONTACT: ..... MILD IRRITATION (RABBIT), RTECS, 1985-6  
SKIN CONTACT: ..... MILD IRRITATION (HUMAN), RTECS, 1985-6  
SKIN ABSORPTION: ..... NO DATA AVAILABLE  
INHALATION: ..... NO DATA AVAILABLE  
INGESTION: ..... PRACTICALLY NON-TOXIC  
LD50 (RAT) - 4300 MG/KG (20% SLURRY)  
6000 MG/KG (50% SLURRY)  
GOSSELIN, SMITH AND HODGE, CLINICAL  
TOX. OF COMM. PRODUCTS, 1984

===== EXPOSURE LIMITS =====

OSHA: ..... NOT ESTABLISHED  
ACGIH: ..... NOT ESTABLISHED  
OTHER: ..... NOT APPLICABLE

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===== EFFECTS OF OVEREXPOSURE =====

ACUTE EXPOSURE ..... SODIUM BICARBONATE IS A GRAS (GENERALLY  
 RECOGNIZED AS SAFE) FOOD INGREDIENT.  
 NO SIGNIFICANT TOXICITY IS EXPECTED.  
 MAY BE IRRITATING TO THE SKIN AND EYES.

CHRONIC EXPOSURE ..... ADMINISTRATION OF LARGE DOSES OF SODIUM  
 (EFFECTS CONSIDERED BICARBONATE TO PATIENTS WITH RENAL INSUFFICIENCY  
 INCLUDE: SENSITIVITIES, CAN PRODUCE SYSTEMATIC ALKALOSIS  
 CARCINOGENICITY,  
 TERATOGENICITY,  
 MUTAGENICITY,  
 SYNERGISTIC  
 PRODUCTS, AND  
 ANY MEDICAL CONDITIONS  
 GENERALLY RECOGNIZED AS  
 BEING AGGRAVATED BY  
 EXPOSURE.)

===== EMERGENCY AND FIRST AID PROCEDURES =====

EYES: ..... FLUSH WITH WATER FOR AT LEAST 15 MINUTES.  
 IF IRRITATION PERSISTS OBTAIN MEDICAL ATTENTION.

SKIN: ..... WASH WITH SOAP AND WATER FOR 15 MINUTES.  
 IF IRRITATION OCCURS AND PERSISTS, OBTAIN  
 MEDICAL ATTENTION.

INHALATION: ..... REMOVE FROM EXPOSURE. IF DISCOMFORT OCCURS  
 AND PERSISTS, OBTAIN MEDICAL ATTENTION.

INGESTION: ..... DRINK WATER TO DILUTE. OBTAIN MEDICAL  
 ADVICE BY PHONE.

DECONTAMINATION PROCEDURE: ... WASH WITH SOAP AND WATER.

NOTES TO PHYSICIAN: ..... INTERNAL TOXICITY IS LOW. TREATMENT FOLLOWS  
 STANDARD PROTOCOLS AND IS OTHERWISE  
 SYMPTOMATIC AND SUPPORTIVE.

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SPECIAL PROTECTION

VENTILATION REQUIREMENTS. USE GENERAL ROOM DILUTION OR LOCAL EXHAUST VENTILATION WHEN EXCESSIVE DUST IS EXPECTED IN THE WORK ENVIRONMENT.
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT NIOSH/MSHA DUST RESPIRATOR
RESPIRATORY WEAR MSHA-NIOSH APPROVED DUST RESPIRATOR IF EXCESSIVE VISIBLE DUST LEVELS ARE EXPECTED.
EYES CHEMICAL GOGGLES
GLOVES GENERAL PURPOSE
SPECIAL CLOTHING AND EQUIPMENT FULL COVER CLOTHING
FOOTWEAR NONE

STORAGE AND HANDLING

(PLEASE USE THIS STATEMENT TO SATISFY THE IN-PLANT LABELING REQUIREMENTS OF THE OSHA HAZARD COMMUNICATIONS STANDARD 29CFR 1910.1200)
STORE TN COOL, DRY AREAS AND AWAY FROM OTHER CHEMICALS THAT MAY CONTAMINATE PRODUCT. MINIMIZE THE FREE FALL WHEN HANDLING TO MINIMIZE THE DUST GENERATED. WEAR EYE PROTECTION AND MSHA/NIOSH APPROVED DUST RESPIRATOR TO PREVENT IRRITATION WHERE EXCESSIVE DUST MAY BE EXPECTED. CARBON DIOXIDE GAS CAN FORM IN CONFINED SPACES IF SODIUM BICARBONATE CONTACTS ACIDS. DO NOT ENTER CONFINED SPACES UNTIL THEY HAVE BEEN WELL VENTILATED AND CARBON DIOXIDE AND OXYGEN LEVELS HAVE BEEN DETERMINED TO BE SAFE. CONTINUE TO MONITOR ATMOSPHERE FOR OXYGEN DEFICIENCY.

DISPOSAL, SPILL OR LEAK PROCEDURES

PROCEDURE FOR RELEASE OR SPILL SWEEP UP AS MUCH AS POSSIBLE FOR SALVAGE OR DISPOSAL. WASH AWAY RESIDUE WITH WATER.

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===== DISPOSAL, SPILL OR LEAK PROCEDURES =====

WASTE DISPOSAL METHOD. .... IF MATERIAL CANNOT BE SALVAGED, THE PREFERRED METHOD OF DISPOSAL IS IN A SECURED LANDFILL IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. EMPTY CONTAINERS MAY BE INCINERATED OR DISCARDED AS GENERAL TRASH.

===== TRANSPORTATION DATA =====

DOT PROPER SHIPPING NAME: ..... SODIUM BICARBONATE  
 DOT CLASSIFICATION: ..... NONHAZARDOUS  
 DOT LABELS: ..... NOT APPLICABLE  
 DOT MARKING: ..... NOT APPLICABLE  
 DOT PLACARD: ..... NOT APPLICABLE  
 UN NUMBER: ..... NOT APPLICABLE  
 HAZARDOUS SUBSTANCE/RQ: ..... NOT APPLICABLE  
 49 STCC NUMBER ..... NOT APPLICABLE  
 EMERGENCY ACCIDENT PRECAUTIONS AND PROCEDURE: ..... NONE  
 PRECAUTIONS TO BE TAKEN IN TRANSPORTATION: ..... NONE  
 TYPE PACKAGES: ..... RAILROAD HOPPER CARS, HOPPER TRUCKS, BAGS  
 OTHER SHIPPING IDS: ..... NOT APPLICABLE

===== ADDITIONAL REGULATORY INFORMATION =====

MATERIAL IS REPORTED IN EPA TSCA INVENTORY LIST? ..... YES  
 MATERIAL IS LISTED AS A CARCINOGEN/POTENTIAL CARCINOGEN IN FOLLOWING  
     NTP ANNUAL REPORT? ..... NO  
     IARC GROUP I OR II? ..... NO  
     OSHA 29CFR PART 1910 SUBPART Z? ..... NO  
     ACC-IH APPENDIX A? ..... NO

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CALIFORNIA "PROPOSITION 65"

NO CHEMICALS LISTED BY CALIFORNIA ARE PRESENT AT A LEVEL THAT POSES A SIGNIFICANT RISK OF CAUSING CANCER OR REPRODUCTIVE TOXICITY. CONCENTRATION OF LISTED CHEMICALS ARE:

ARSENIC, PPM AS AS203 = 0.01

TOTAL CHROMIUM, PPM CR = 0.03

LEAD, PPM PB =<1

ALL OTHER LISTED CHEMICALS ARE NOT DETECTED OR NOT SUSPECTED TO BE PRESENT.

DOES PRODUCT CONTAIN A TOXIC CHEMICAL(S) SUBJECT TO SARA TITLE III SECTION

REPORTING ..... NO

CHEMICAL(S) .....

SARA TITLE III SECTION

311/312 CLASSIFICATION ..... ACUTE HEALTH HAZARD (IRRITANT)

===== Additional INFORMATION =====

AQUATIC TOXICITY:

BLUEGILL: TLM, 24HRS.=385MG/L(NA2C03)

J.VA.TER POLLUTION CONTROL FEDERATION

37(9), 1308-13, 1965