

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 (H2O=1) 2.20
SOLUBILITY IN H2O % 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 EXPLOSION HAZARD: NONE
STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: CONTACT WITH ACIDS EXCEPT UNDER CONTROLLED CONDITIONS.
MAJOR CONTAMINANTS THAT CONTRIBUTE TO INSTABILITY: NONE
INCOMPATIBILITY: REACTS WITH ACIDS TO RELEASE CARBON DIOXIDE GAS HEAT.
HAZARDOUS DECOMPOSITION: NONE
SENSITIVITY TO MECH: NONE
SENSITIVITY TO STATIC: NONE

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

EYE CONTACT: MILD IRRITATION (RABBIT), RTECS, 1985-6
SKIN CONTACT: MILD IRRITATION (HUMAN), RTECS, 1985-6
SKIN ABSORPTION: 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 IN 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