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MATERIAL SAFETY DATA SHEET

SECTION 1- GENERAL INFORMATION

SHEET NO. 4095

PRODUCT NAME: ARM & HAMMER BAKING SODA

PRODUCT NO. 412-0795, 499-7999

DATE PREPARED: 06-23-86

SECTION 2- IDENTIFICATION

CHEMICAL NAME - SODIUM BICARBONATE  
DESCRIPTION - INORGANIC SALT

CAS 144-55-8  
FORMULA: NaHCO3

SECTION 3- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS:

(SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S): OSHA PEL ACGIH TLV: OTHER LIMITS: RECOM.

NONE

SECTION 4- PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A SPECIFIC GRAVITY (H2O=1) 2.20  
VAPOR PRESSURE (MM HG) N/A MELTING POINT: DECOMPOSES @ 225 F.  
VAPOR DENSITY (AIR =1) N/A EVAPORATION RATE (BUTYL ACETATE =1) N/A  
SOLUBILITY IN WATER: MODERATE  
APPEARANCE AND ODOR: WHITE CRYSTALLINE POWDER, NO ODOR.

SECTION 5- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) NON COMBUSTIBLE FLAMMABLE LIMITS: N/A  
EXTINGUISHING MEDIA: WATER, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES:

IF EXTREMELY LARGE QUANTITIES ARE INVOLVED, SIGNIFICANT LEVELS OF CO2  
MAY BE GENERATED MAKING NECESSARY THE USE OF A SELF CONTAINED BREATHING  
APPARATUS (CO2 IS AN ASPHYXIANT AT LEVELS OVER 5%). SODA ASH, ANOTHER  
THERMAL DECOMPOSITION PRODUCT GENERATED AT TEMPERATURES ABOVE 200 F.  
IS A RESPIRATORY AND SKIN IRRITANT.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SECTION 6- REACTIVITY DATA

STABILITY: STABLE CONDITIONS TO AVOID: TEMPERATURES ABOVE 228 F.  
INCOMPATIBILITY (MATERIALS TO AVOID) REACTS WITH ACIDS TO FORM SALT,  
WATER AND CARBON DIOXIDE.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: YIELDS ABOUT 1% SODIUM CARBONATE  
WHEN TEMPERATURE IS RAISED TO 190 F. DUST OF CO2 GAS TO BE PRESENT  
IN THE ATMOSPHERE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE KNOWN

SECTION 7- HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION: YES, SKIN: NO, INGESTION: YES  
CARCINOGENICITY: NTP: NO, IARC MONOGRAPHS: NO, OSHA REGULATED: NO

ACUTE AND  
CHRONIC EFFECTS  
OF OVEREXPOSURE:

INHALATION:  
NONE KNOWN

SKIN CONTACT: NOT A SKIN IRRITANT PER 16 CFR 1500.41 NOT DERMALLY TOXIC  
PER 16 CFR 1500.42. IRRITANT DOSE: HUMAN SKIN 30 MG/M3 DAYS  
INTERMITTENT: MILD IRRITATION.

EYE CONTACT: NOT AN EYE IRRITANT PER 16. CFR 1500.42. EYE-RST 100 MG RNS  
MLD.

INGESTION: NON TOXIC PER 16 CFR 1500.3 ORL-INF TDL. 1250MG/KG ORL-RAT LD50  
4-5 G/KG LARGE DOSES HAVE PRODUCED SYSTEMIC ALKALOSIS AND EXPANSION IN  
INTRACELLULAR FLUID VOLUME WITH EDEMA.

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SECTION 7- HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:  
FLUSH WITH COPIOUS AMOUNTS OF WATER. SEEK MEDICAL ATTENTION IF  
IRRITATION PERSISTS.

INGESTION: SEE MEDICAL ATTENTION IMMEDIATELY IF OVERDOSE BEEN TAKEN.

SECTION 8- PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
SCOOP UP INTO GENERAL TRASH OR FLUSH INTO SEWER SYSTEM.

WASTE DISPOSAL METHOD: ENVIRONMENTALLY INNOCUOUS - DISCARD IN GENERAL  
TRASH.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
FOLLOW USE INSTRUCTIONS ON CONTAINER. DO NOT STORE NEAR ACIDS. KEEP  
OUT OF REACH OF CHILDREN.

OTHER PRECAUTIONS: N/A

SECTION 9- CONTROL MEASURES

RESPIRATORY PROTECTION: (SPECIFY TYPE)  
DUST MASK REQUIRED IF TOTAL DUST LEVELS EXCEED 15MG/M3.

VENTILATION: LOCAL EXHAUST: KEEP DUST LEVELS BELOW 10MG/M3  
MECHANICAL (GENERAL): SEE ABOVE.

PROTECTIVE GLOVES: N/A EYE PROTECTION: N/A

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK/HYGIENIC PRACTICES: N/A