

7594 D04
EFFECTIVE: 05/01/89

SODIUM

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ISSUED: 05/17/89

J.T. BAKER INC., 222 RED SCHOOL LANE, PHILLIPSBURG, NJ 08865

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SECTION I - PRODUCT IDENTIFICATION
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PRODUCT NAME: SODIUM
COMMON SYNONYMS: NATRIUM
CHEMICAL FAMILY: METALS
FORMULA: NA
FORMULA WT.: 22.99
CAS NO.: 7440-23-5
NIOSH/RTECS NO.: VY0686000
PRODUCT USE: LABORATORY REAGENT
PRODUCT CODES: 9412, 9410

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PRECAUTIONARY LABELING
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BAKER SAF-T-DATA* SYSTEM

HEALTH	-	3	SEVERE (POISON)
FLAMMABILITY	-	3	SEVERE (FLAMMABLE)
REACTIVITY	-	3	SEVERE (WATER REACTIVE)
CONTACT	-	4	EXTREME (CORROSIVE)

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES; CLASS D EXTINGUISHER

U.S. PRECAUTIONARY LABELING

DANGER

FLAMMABLE SOLID. CAUSES SEVERE BURNS. REACTS VIOLENTLY WITH WATER, LIBERATING AND IGNITING HYDROGEN. EXCEPTIONAL CONTACT HAZARD: READ MATERIAL SAFETY DATA SHEET.

KEEP FROM ANY POSSIBLE CONTACT WITH WATER. KEEP IN TIGHTLY CLOSED CONTAINER. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WEAR GOGGLES AND DRY GLOVES WHEN HANDLING. WASH THOROUGHLY AFTER HANDLING. IN CASE OF FIRE, SMOTHER WITH DRY SODA ASH. NEVER USE WATER OR CHEMICAL FIRE EXTINGUISHERS. OPENING INSTRUCTIONS: REMOVE TAPE TO EXPOSE SCREW CAP LID. UNSCREW LID AND THEN CAREFULLY PUNCTURE SEAL AND PRY UP TO REMOVE.

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PRECAUTIONARY LABELING (CONTINUED)

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INTERNATIONAL LABELING

REACTS VIOLENTLY WITH WATER. CONTACT WITH WATER LIBERATES HIGHLY FLAMMABLE GASES. CAUSES BURNS.
KEEP CONTAINER DRY. IN CASE OF FIRE, USE DRY SODA ASH. NEVER USE WATER OR CHEMICAL FIRE EXTINGUISHERS.

SAF-T-DATA* STORAGE COLOR CODE: RED STRIPE (STORE SEPARATELY)

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SECTION II - COMPONENTS

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COMPONENT	CAS NO.	WEIGHT %	OSHA/PEL	ACGIH/TLV
SODIUM	7440-23-5	90-100	N/E	N/E

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SECTION III - PHYSICAL DATA

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BOILING POINT: 881 C (1617 F) (AT 760 MM HG)	VAPOR PRESSURE (MMHG): 824 (20 C)
MELTING POINT: 98 C (208 F) (AT 760 MM HG)	VAPOR DENSITY (AIR=1): N/A
SPECIFIC GRAVITY: 0.97 (H2O=1)	EVAPORATION RATE: N/A
SOLUBILITY (H2O): DECOMPOSES	% VOLATILES BY VOLUME: 0 (21 C)
PH: N/A	
ODOR THRESHOLD (P.P.M.): N/A	PHYSICAL STATE: SOLID
COEFFICIENT WATER/OIL DISTRIBUTION: N/A	
APPEARANCE & ODOR: SILVERY-WHITE METAL.	

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA
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FLASH POINT (CLOSED CUP): 43 C (110 F) NFPA 704M RATING: 3-1-2

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: UPPER - N/A LOWER - N/A

FIRE EXTINGUISHING MEDIA

SMOTHER WITH DRY SODA ASH. NEVER USE WATER OR CHEMICAL FIRE EXTINGUISHERS.

SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. MOVE EXPOSED CONTAINERS FROM FIRE AREA, IF IT CAN BE DONE WITHOUT RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. DO NOT GET WATER INSIDE CONTAINERS.

UNUSUAL FIRE & EXPLOSION HAZARDS

REACTS VIOLENTLY WITH WATER LIBERATING AND IGNITING HYDROGEN.

TOXIC GASES PRODUCED

NONE IDENTIFIED

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT

NONE IDENTIFIED.

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE

NONE IDENTIFIED.

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SECTION V - HEALTH HAZARD DATA
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THRESHOLD LIMIT VALUE (TLV/TWA): NOT ESTABLISHED

SHORT-TERM EXPOSURE LIMIT (STEL): NOT ESTABLISHED

PERMISSIBLE EXPOSURE LIMIT (PEL): NOT ESTABLISHED

TOXICITY OF COMPONENTS

NO INFORMATION IS AVAILABLE

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

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SECTION V - HEALTH HAZARD DATA (CONTINUED)
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CARCINOGENICITY
NONE IDENTIFIED.

REPRODUCTIVE EFFECTS
NONE IDENTIFIED.

EFFECTS OF OVEREXPOSURE

INHALATION: ULCERATION, AND BURNS TO MOUTH, THROAT, AND STOMACH

SKIN CONTACT: SEVERE BURNS

EYE CONTACT: SEVERE BURNS

SKIN ABSORPTION: NONE IDENTIFIED

INGESTION: SEVERE BURNS TO MOUTH, THROAT, AND STOMACH

CHRONIC EFFECTS: NONE IDENTIFIED

TARGET ORGANS
EYES, SKIN, MUCOUS MEMBRANES

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE IDENTIFIED

PRIMARY ROUTES OF ENTRY
INHALATION, INGESTION, EYE CONTACT, SKIN CONTACT

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: CALL A PHYSICIAN. IF SWALLOWED, DO NOT INDUCE VOMITING. IF
CONSCIOUS, GIVE LARGE AMOUNTS OF WATER.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE
ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE
OXYGEN.

SKIN CONTACT: IN CASE OF SKIN CONTACT, IMMEDIATELY REMOVE PARTICLES OF
METAL. THEN FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES
WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH
CLOTHING BEFORE RE-USE.

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SECTION V - HEALTH HAZARD DATA (CONTINUED)
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EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

SARA/TITLE III HAZARD CATEGORIES AND LISTS

ACUTE: YES CHRONIC: YES FLAMMABILITY: YES PRESSURE: NO REACTIVITY: YES

EXTREMELY HAZARDOUS SUBSTANCE: NO
CERCLA HAZARDOUS SUBSTANCE: YES CONTAINS SODIUM (RQ = 10 LBS)
TOXIC CHEMICALS: NO
TSCA INVENTORY: YES

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SECTION VI - REACTIVITY DATA
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STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: MOISTURE, HEAT

INCOMPATIBLES: WATER, STRONG OXIDIZING AGENTS

DECOMPOSITION PRODUCTS: NONE IDENTIFIED

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SECTION VII - SPILL & DISPOSAL PROCEDURES
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STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE
WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. SHUT OFF IGNITION SOURCES; NO FLARES, SMOKING, OR FLAMES IN AREA. DO NOT USE WATER.
WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER.
MOVE CONTAINER(S) FROM SPILL AREA.

DISPOSAL PROCEDURE
DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: D001, D002, D003 (IGNITABLE, CORROSIVE, REACTIVE WASTE)

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SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT
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VENTILATION: USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO
KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE.

RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS
EXIST. IF AIRBORNE CONCENTRATION IS HIGH, A DUST/MIST
RESPIRATOR IS RECOMMENDED. IF CONCENTRATION EXCEEDS
CAPACITY OF RESPIRATOR, A SELF-CONTAINED BREATHING
APPARATUS IS ADVISED.

EYE/SKIN PROTECTION: SAFETY GOGGLES, UNIFORM, APRON, PROPER GLOVES ARE
RECOMMENDED.

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SECTION IX - STORAGE AND HANDLING PRECAUTIONS
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SAF-T-DATA* STORAGE COLOR CODE: RED STRIPE (STORE SEPARATELY)

DRAGE REQUIREMENTS

KEEP CONTAINER TIGHTLY CLOSED. STORE AWAY FROM WATER OR LOCATIONS WHERE
WATER MAY BE USED TO EXTINGUISH FIRE. DO NOT STORE NEAR OXIDIZING
MATERIALS. CONTAINERS MUST BE WELL-SEALED.

SPECIAL PRECAUTIONS

OPENING INSTRUCTIONS: REMOVE TAPE TO EXPOSE SCREWCAP LID. UNSCREW LID
AND THEN CAREFULLY PUNCTURE SEAL AND PRY UP TO REMOVE.

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION
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DOMESTIC (D.O.T.)

PROPER SHIPPING NAME: SODIUM METAL
HAZARD CLASS: FLAMMABLE SOLID
UN/NA: UN1428 REPORTABLE QUANTITY: 10 LBS.
LABELS: FLAMMABLE SOLID, DANGEROUS WHEN WET
REGULATORY REFERENCES: 49CFR 172.101; 173.206

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (CONTINUED)
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INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME: SODIUM METAL
HAZARD CLASS: 4.3 I.M.O. PAGE: 4175
UN: UN1428 MARINE POLLUTANTS: NO PACKAGING GROUP: II
LABELS: DANGEROUS WHEN WET
REGULATORY REFERENCES: 49CFR 172.102; PART 176; IMD

AIR (I.C.A.O.)

PROPER SHIPPING NAME: SODIUM METAL
HAZARD CLASS: 4.3
UN: UN1428 PACKAGING GROUP: II
LABELS: DANGEROUS WHEN WET
REGULATORY REFERENCES: 49CFR 172.101; 173.6; PART 175; ICAO/IATA

U.S. CUSTOMS HARMONIZATION NUMBER: 2805110000

=====
N/A = NOT APPLICABLE OR NOT AVAILABLE
N/E = NOT ESTABLISHED

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET MEETS THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT AND REGULATIONS PROMULGATED THEREUNDER (29 CFR 1910.1200 ET. SEQ.) AND THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PERSON TRAINED IN, OR SUPERVISED BY A PERSON TRAINED IN, CHEMICAL HANDLING. THE USER IS RESPONSIBLE FOR DETERMINING THE PRECAUTIONS AND DANGERS OF THIS CHEMICAL FOR HIS OR HER PARTICULAR APPLICATION. DEPENDING ON USAGE, PROTECTIVE CLOTHING INCLUDING EYE AND FACE GUARDS AND RESPIRATORS MUST BE USED TO AVOID CONTACT WITH MATERIAL OR BREATHING CHEMICAL VAPORS/FUMES.

EXPOSURE TO THIS PRODUCT MAY HAVE SERIOUS ADVERSE HEALTH EFFECTS. THIS CHEMICAL MAY INTERACT WITH OTHER SUBSTANCES. SINCE THE POTENTIAL USES ARE SO VARIED, BAKER CANNOT WARN OF ALL OF THE POTENTIAL DANGERS OF USE OR INTERACTION WITH OTHER CHEMICALS OR MATERIALS. BAKER WARRANTS THAT THE CHEMICAL MEETS THE SPECIFICATIONS SET FORTH ON THE LABEL. BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

THE USER SHOULD RECOGNIZE THAT THIS PRODUCT CAN CAUSE SEVERE INJURY AND
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J.T.BAKER INC. 222 RED SCHOOL LANE, PHILLIPSBURG, NJ 08865

M A T E R I A L S A F E T Y D A T A S H E E T

24-HOUR EMERGENCY TELEPHONE -- (201) 859-2151

CHEMTREC # (800) 424-9300 -- NATIONAL RESPONSE CENTER # (800) 424-8802

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EVEN DEATH, ESPECIALLY IF IMPROPERLY HANDLED OR THE KNOWN DANGERS OF USE
ARE NOT HEEDED. READ ALL PRECAUTIONARY INFORMATION. AS NEW DOCUMENTED
GENERAL SAFETY INFORMATION BECOMES AVAILABLE, BAKER WILL PERIODICALLY
REVISE THIS MATERIAL SAFETY DATA SHEET. IF YOU HAVE ANY QUESTIONS,
PLEASE CALL CUSTOMER SERVICE (1-800-JTBAKER) FOR ASSISTANCE.

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APPROVED BY QUALITY ASSURANCE DEPARTMENT.

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