

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 -- -908- 859-2151
CHEMTREC # -800- 424-9300 -- NATIONAL RESPONSE CENTER # -800- 424-8802

S4634 M02
EFFECTIVE- 01/04/94

SODIUM PERBORATE, 4-HYDRATE

PAGE- 1
ISSUED- 01/15/94

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

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME- SODIUM PERBORATE, 4-HYDRATE
COMMON SYNONYMS- PERBORIC ACID, SODIUM SALT, TETRAHYDRATE- METABORATE
PEROXYHYDRATE
CHEMICAL FAMILY- INORGANIC SODIUM COMPOUNDS
FORMULA- $\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$
FORMULA WT.- 153.88
CAS NO.- 10486-00-7
NIOSH/RTECS NO.- SC7350000
PRODUCT USE- LABORATORY REAGENT
PRODUCT CODES- 3811

PRECAUTIONARY LABELING

BAKER SAF-T-DATA* SYSTEM

HEALTH	-	2	MODERATE
FLAMMABILITY	-	0	NONE
REACTIVITY	-	1	SLIGHT
CONTACT	-	1	SLIGHT

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES- LAB COAT

U.S. PRECAUTIONARY LABELING

WARNING

CAUSES IRRITATION. HARMFUL IF SWALLOWED OR INHALED.
AVOID CONTACT WITH EYES, SKIN, CLOTHING. AVOID BREATHING DUST. KEEP IN
TIGHTLY CLOSED CONTAINER. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY
AFTER HANDLING.

INTERNATIONAL LABELING

HARMFUL IF SWALLOWED.
DO NOT BREATHE DUST. AVOID CONTACT WITH SKIN AND EYES.

SAF-T-DATA* STORAGE COLOR CODE- ORANGE -GENERAL STORAGE-

CONTINUED ON PAGE- 2

S4634 M02
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PAGE- 4
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SECTION V - HEALTH HAZARD DATA -CONTINUED-

SKIN ABSORPTION- NONE IDENTIFIED

INGESTION- NONE IDENTIFIED

CHRONIC EFFECTS- NONE IDENTIFIED

TARGET ORGANS
NONE IDENTIFIED

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE IDENTIFIED

PRIMARY ROUTES OF ENTRY
NONE INDICATED

EMERGENCY AND FIRST AID PROCEDURES

INGESTION- CALL A PHYSICIAN. IF SWALLOWED, IF CONSCIOUS, IMMEDIATELY
INDUCE VOMITING.

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

SKIN CONTACT- IN CASE OF CONTACT, FLUSH SKIN WITH WATER.

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- NO PRESSURE- NO REACTIVITY- NO

EXTREMELY HAZARDOUS SUBSTANCE- NO
CERCLA HAZARDOUS SUBSTANCE- NO
SARA 313 TOXIC CHEMICALS- NO
TSCA INVENTORY- YES

CONTINUED ON PAGE- 5

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SECTION II - COMPONENTS

COMPONENT	CAS NO.	WEIGHT %	CSHA/PEL	ACGIH/TLV
SODIUM PERBORATE, 4-HYDRATE	10486-00-7	90-100	N/E	N/E

SECTION III - PHYSICAL DATA

BOILING POINT- N/A	VAPOR PRESSURE -MMHG-- N/A
MELTING POINT- 63 C -145 F- -AT 760 MM HG-	VAPOR DENSITY -AIR-1-- N/A
SPECIFIC GRAVITY- N/A -H2O-1-	EVAPORATION RATE- N/A
SOLUBILITY-H2O-- MODERATE -1-10%-	% 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- WHITE CRYSTALLINE POWDER. ODORLESS.	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT -CLOSED CUP-- N/A

AUTOIGNITION TEMPERATURE- N/A

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

FIRE EXTINGUISHING MEDIA
USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE-FIGHTING PROCEDURES
NONE IDENTIFIED.

CONTINUED ON PAGE- 3

S4634 M02
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PAGE- 3
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SECTION IV - FIRE AND EXPLOSION HAZARD DATA -CONTINUED-

UNUSUAL FIRE & EXPLOSION HAZARDS
NONE IDENTIFIED.

TOXIC GASES PRODUCED
NONE IDENTIFIED

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT
NONE IDENTIFIED.

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE
NONE IDENTIFIED.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -TLV/TWA-- NOT ESTABLISHED

SHORT-TERM EXPOSURE LIMIT -STEL-- NOT ESTABLISHED

PERMISSIBLE EXPOSURE LIMIT -PEL-- NOT ESTABLISHED

TOXICITY OF COMPONENTS

INTRAPERITONEAL MOUSE LD50 FOR SODIUM PERBORATE, 4-HYDRATE 538 MG/KG
CARCINOGENICITY- NTP- NO IARC- NO Z LIST- NO OSHA REG- NO

CARCINOGENICITY
NONE IDENTIFIED.

REPRODUCTIVE EFFECTS
NONE IDENTIFIED.

EFFECTS OF OVEREXPOSURE

INHALATION- IRRITATION OF UPPER RESPIRATORY TRACT

SKIN CONTACT- IRRITATION

EYE CONTACT- IRRITATION

CONTINUED ON PAGE- 4

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PAGE- 6
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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC -D.O.T.-

PROPER SHIPPING NAME- CHEMICALS, N.O.S. -NON-REGULATED-

INTERNATIONAL -I.M.O.-

PROPER SHIPPING NAME- CHEMICALS, N.O.S. -NON-REGULATED-
MARINE POLLUTANTS- NC

AIR -I.C.A.O.-

PROPER SHIPPING NAME- CHEMICALS, N.O.S. -NON-REGULATED-

U.S. CUSTOMS HARMONIZATION NUMBER- 28403000004

NOTE- WHEN HANDLING LIQUID PRODUCTS, SECONDARY PROTECTIVE CONTAINERS MUST BE USED FOR CARRYING.

-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 EVEN DEATH, ESPECIALLY IF IMPROPERLY HANDLED OR THE KNOWN DANGERS OF USE ARE NOT HEEDDED. READ ALL PRECAUTIONARY INFORMATION. AS NEW DOCUMENTED GENERAL SAFETY INFORMATION BECOMES AVAILABLE, BAKER WILL PERIODICALLY

CONTINUED ON PAGE- 7