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SODIUM CHLORATE

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SECTION V - HEALTH HAZARD DATA -CONTINUED-

CARCINOGENICITY
NONE IDENTIFIED.

REPRODUCTIVE EFFECTS
NONE IDENTIFIED.

EFFECTS OF OVEREXPOSURE

INHALATION- EXCESSIVE INHALATION IS IRRITATING, MAY CAUSE RESPIRATORY SYSTEM DAMAGE

SKIN CONTACT- IRRITATION

EYE CONTACT- IRRITATION

SKIN ABSORPTION- NONE IDENTIFIED

INGESTION- HEADACHE, NAUSEA, VOMITING, DIZZINESS, GASTROINTESTINAL IRRITATION

CHRONIC EFFECTS- NONE IDENTIFIED

TARGET ORGANS
EYES, SKIN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE IDENTIFIED

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

EMERGENCY AND FIRST AID PROCEDURES

INGESTION- CALL A PHYSICIAN. IF SWALLOWED, IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER. 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.

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

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME- SODIUM CHLORATE
COMMON SYNONYMS- N/A
CHEMICAL FAMILY- INORGANIC SODIUM COMPOUNDS
FORMULA- NACLO3
FORMULA WT.- 106.44
CAS NO.- 7775-09-9
NIOSH/RTECS NO.- F0052000
PRODUCT USE- LABORATORY REAGENT
PRODUCT CODES- 3616

PRECAUTIONARY LABELING

BAKER SAF-T-DATA* SYSTEM

HEALTH	-	1	SLIGHT
FLAMMABILITY	-	0	NONE
REACTIVITY	-	3	SEVERE -OXIDIZER-
CONTACT	-	1	SLIGHT

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES- LAB COAT- VENT HOOD- PROPER GLOVES

U.S. PRECAUTIONARY LABELING

DANGER

STRONG OXIDIZER. CONTACT WITH COMBUSTIBLE MATERIALS, FLAMMABLE MATERIALS, OR POWDERED METALS CAN CAUSE FIRE OR EXPLOSION. MAY CAUSE SHOCK-SENSITIVE MIXTURES.

KEEP FROM CONTACT WITH CLOTHING AND OTHER COMBUSTIBLE MATERIALS. DO NOT STORE NEAR COMBUSTIBLE MATERIALS. KEEP IN TIGHTLY CLOSED CONTAINER. WASH THOROUGHLY AFTER HANDLING. IN CASE OF FIRE, SOAK WITH WATER. IN CASE OF SPILL, SWEEP UP AND REMOVE. FLUSH SPILL AREA WITH WATER.

INTERNATIONAL LABELING

EXPLOSIVE WHEN MIXED WITH COMBUSTIBLE MATERIAL. HARMFUL BY INHALATION AND IF SWALLOWED.

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PRECAUTIONARY LABELING -CONTINUED-

KEEP OUT OF REACH OF CHILDREN. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

SAF-T-DATA* STORAGE COLOR CODE- YELLOW -REACTIVE-

SECTION II - COMPONENTS

COMPONENT	CAS NO.	WEIGHT %	OSHA/PEL	ACGIH/TLV
SODIUM CHLORATE	7775-09-9	90-100	N/E	N/E

SECTION III - PHYSICAL DATA

BOILING POINT- N/A VAPOR PRESSURE -MMHG-- N/A

MELTING POINT- 248 C -478 F- VAPOR DENSITY -AIR-1-- N/A
-AT 760 MM HG-

SPECIFIC GRAVITY- 2.50 EVAPORATION RATE- N/A
-H2O-1-

SOLUBILITY-H2O-- COMPLETE -100%- % 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- COLORLESS CRYSTALS. ODORLESS.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT -CLOSED CUP-- N/A NFPA 704M RATING- 0-0-2 OXY
AUTOIGNITION TEMPERATURE- N/A
FLAMMABLE LIMITS- UPPER - N/A LOWER - N/A
FIRE EXTINGUISHING MEDIA
USE WATER SPRAY.

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.

UNUSUAL FIRE & EXPLOSION HAZARDS

CAN BE AN EXPLOSION HAZARD, ESPECIALLY WHEN HEATED.

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

ORAL RAT LD50 FOR SODIUM CHLORATE

INTRAPERITONEAL MOUSE LD50 FOR SODIUM CHLORATE

1200 MG/KG

596 MG/KG

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

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SECTION V - HEALTH HAZARD DATA -CONTINUED-

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- NO

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

SECTION VI - REACTIVITY DATA

STABILITY- STABLE HAZARDOUS POLYMERIZATION- WILL NOT OCCUR

CONDITIONS TO AVOID- HEAT, FLAME, OTHER SOURCES OF IGNITION, AIR

INCOMPATIBLES- STRONG ACIDS, ORGANIC MATERIALS AT ELEVATED TEMPERATURES, STRONG REDUCING AGENTS, COMBUSTIBLE MATERIALS

DECOMPOSITION PRODUCTS- EXPLOSIVE PEROXIDES

SECTION VII - SPILL & DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE
WEAR SUITABLE PROTECTIVE CLOTHING. KEEP COMBUSTIBLES -WOOD, PAPER, OIL, ETC.- AWAY FROM SPILLED MATERIAL. WITH CLEAN SHOVEL, CAREFULLY PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER- REMOVE FROM AREA. FLUSH SPILL AREA WITH WATER.

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

EPA HAZARDOUS WASTE NUMBER- D001 -IGNITABLE WASTE-

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SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

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, USE AN
APPROPRIATE RESPIRATOR OR DUST MASK.

EYE/SKIN PROTECTION- SAFETY GOGGLES, PROPER GLOVES ARE RECOMMENDED.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA* STORAGE COLOR CODE- YELLOW -REACTIVE-

STORAGE REQUIREMENTS
KEEP CONTAINER TIGHTLY CLOSED. STORE SEPARATELY AND AWAY FROM FLAMMABLE
AND COMBUSTIBLE MATERIALS.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC -D.O.T.-

PROPER SHIPPING NAME- SODIUM CHLORATE
HAZARD CLASS- OXIDIZER
UN/NA- UN1495
LABELS- OXIDIZER
REGULATORY REFERENCES- 49CFR 172.101- 173.163

INTERNATIONAL -I.M.O.-

PROPER SHIPPING NAME- SODIUM CHLORATE
HAZARD CLASS- 5.1
UN- UN1495 MARINE POLLUTANTS- NC
LABELS- OXIDIZING AGENT
REGULATORY REFERENCES- 49CFR PART 176- IMDG CODE

I.M.O. PAGE- 5072
PACKAGING GROUP- II

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION -CONTINUED-

AIR -I.C.A.O.-

PROPER SHIPPING NAME- SODIUM CHLORATE
HAZARD CLASS- 5.1

UN- UN1495

PACKAGING GROUP- II

LABELS- OXIDIZING AGENT

REGULATORY REFERENCES- 49CFR PART 175- ICAO--- WE BELIEVE THE TRANSPORTATION DATA AND REFERENCES CONTAINED HEREIN TO BE FACTUAL AND THE OPINION OF QUALIFIED EXPERTS. THE DATA IS MEANT AS A GUIDE TO THE OVERALL CLASSIFICATION OF THE PRODUCT AND IS NOT PACKAGE SIZE SPECIFIC, NOR SHOULD IT BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH THE COMPANY ASSUMES LEGAL RESPONSIBILITY.--- THE INFORMATION IS OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION, AND VERIFICATION. ANY USE OF THE INFORMATION MUST BE DETERMINED BY THE USER TO BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. SEE SHIPPER REQUIREMENTS 49CFR 171.2, CERTIFICATION 172.204, AND EMPLOYEE TRAINING 49 CFR 173.1-B-.

U.S. CUSTOMS HARMONIZATION NUMBER- 28291100002

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

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