

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

A6660 -06
EFFECTIVE: 01/04/94

ANILINE

PAGE: 1
ISSUED: 01/15/94

J.T.BAKER INC., 1037 LOWER BROWNSVILLE RD., JACKSON, TN 38301

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SECTION I - PRODUCT IDENTIFICATION

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PRODUCT NAME: ANILINE
COMMON SYNONYMS: BENZAMINE; ANILINE OIL, PHENYLAMINE; AMINO BENZENE;
BENZENAMINE
CHEMICAL FAMILY: AMINES
FORMULA: C₆H₅NH₂
FORMULA WT.: 93.13
CAS NO.: 62-53-3
NIOSH/RTECS NO.: BW6650000
PRODUCT USE: LABORATORY REAGENT
PRODUCT CODES: 9112,9110

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PRECAUTIONARY LABELING

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BAKER SAF-T-DATA* SYSTEM

HEALTH	-	3	SEVERE (CANCER CAUSING)
FLAMMABILITY	-	2	MODERATE
REACTIVITY	-	2	MODERATE
CONTACT	-	3	SEVERE (LIFE)

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B
EXTINGUISHER

U.S. PRECAUTIONARY LABELING

POISON DANGER

COMBUSTIBLE. CAUSES IRRITATION. MAY BE FATAL IF SWALLOWED, INHALED, OR
ABSORBED THROUGH SKIN. NOTE: REPORTED AS CAUSING CANCER IN LABORATORY ANIMALS.
EXERCISE DUE CARE. EXCEPTIONAL CONTACT HAZARD: READ MATERIAL SAFETY DATA
SHEET.

KEEP AWAY FROM HEAT, SPARKS, FLAME. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
DO NOT BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. USE WITH ADEQUATE
VENTILATION. WASH THOROUGHLY AFTER HANDLING. IN CASE OF FIRE, USE WATER
SPRAY, ALCOHOL FOAM, DRY CHEMICAL, OR CARBON DIOXIDE. IN CASE OF SPILL, SOAK
UP WITH SAND OR EARTH. FLUSH SPILL AREA WITH WATER.

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PRECAUTIONARY LABELING (CONTINUED)

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INTERNATIONAL LABELING

TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. DANGER OF CUMULATIVE EFFECTS.
AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF SOAP AND WATER. WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES. IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE).

SAF-T-DATA* STORAGE COLOR CODE: RED (FLAMMABLE)

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SECTION II - COMPONENTS

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<u>COMPONENT</u>	<u>CAS NO.</u>	<u>WEIGHT %</u>	<u>OSHA/PEL</u>	<u>ACGIH/TLV</u>
ANILINE	62-53-3	99-100	2 PPM	2 PPM

THE TLV AND PEL LISTED DENOTE TLV (SKIN) AND PEL (SKIN).

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SECTION III - PHYSICAL DATA

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BOILING POINT: 184 C (363 F)
(AT 760 MM HG)

VAPOR PRESSURE (MMHG): 0.6
(20 C)

MELTING POINT: -6 C (21 F)
(AT 760 MM HG)

VAPOR DENSITY (AIR=1): 3.22

SPECIFIC GRAVITY: 1.02
(H2O=1)

EVAPORATION RATE: <1
(BUTYL ACETATE = 1)

SOLUBILITY(H2O): 3.6%

% VOLATILES BY VOLUME: 100
(21 C)

PH: 8.1 (0.2M SOLUTION)

ODOR THRESHOLD (P.P.M.): 1.0

PHYSICAL STATE: LIQUID

COEFFICIENT WATER/OIL DISTRIBUTION: N/A

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SECTION III - PHYSICAL DATA (CONTINUED)

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APPEARANCE & ODOR: COLORLESS VISCOUS LIQUID. SWEET ODOR.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT (CLOSED CUP): 69 C (158 F)

NFPA 704M RATING: 3-2-0

AUTOIGNITION TEMPERATURE: 614 C (1139 F)

FLAMMABLE LIMITS: UPPER - 11.0 % LOWER - 1.3 %

FIRE EXTINGUISHING MEDIA

USE WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL OR ORDINARY FOAM.

SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. MOVE CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL.

UNUSUAL FIRE & EXPLOSION HAZARDS

VAPORS MAY FLOW ALONG SURFACES TO DISTANT IGNITION SOURCES AND FLASH BACK. CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE. CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE.

TOXIC GASES PRODUCED

AMMONIA, OXIDES OF NITROGEN, CARBON MONOXIDE, CARBON DIOXIDE

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): 7.6 MG/M (2 PPM)

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SECTION V - HEALTH HAZARD DATA (CONTINUED)

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THE TLV LISTED DENOTES TLV (SKIN) .

SHORT-TERM EXPOSURE LIMIT (STEL) : NOT ESTABLISHED

PERMISSIBLE EXPOSURE LIMIT (PEL) : 8 MG/M (2 PPM)

THE PEL LISTED DENOTES PEL (SKIN) .

TOXICITY OF COMPONENTS

ORAL RAT LD50 FOR ANILINE	250	MG/KG
SKIN RAT LD50 FOR ANILINE	1400	MG/KG
INTRAPERITONEAL RAT LD50 FOR ANILINE	420	MG/KG
INHALATION-7HR MOUSE LC50 FOR ANILINE	175	PPM
CARCINOGENICITY: NTP: NO IARC: NO	Z LIST: NO	OSHA REG: NO

CARCINOGENICITY

TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY BE CARCINOGENIC.

REPRODUCTIVE EFFECTS

TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY BE MUTAGENIC.

EFFECTS OF OVEREXPOSURE

INHALATION: MAY BE FATAL, CAUSES METHEMOGLOBULIN FORMATION IN THE BLOOD, CYANOSIS, UNCONSCIOUSNESS, HEADACHE, NAUSEA, VOMITING, DIZZINESS, CONFUSION, DROWSINESS

SKIN CONTACT: IRRITATION

EYE CONTACT: SEVERE IRRITATION, PERMANENT EYE DAMAGE

SKIN ABSORPTION: MAY BE FATAL, CAUSES METHEMOGLOBULIN FORMATION IN THE BLOOD, CYANOSIS, UNCONSCIOUSNESS, HEADACHE, NAUSEA, VOMITING, DIZZINESS, CONFUSION, DROWSINESS

INGESTION: MAY BE FATAL, CAUSES METHEMOGLOBULIN FORMATION IN THE BLOOD, CYANOSIS, UNCONSCIOUSNESS, HEADACHE, NAUSEA, VOMITING, DIZZINESS, CONFUSION, DROWSINESS

CHRONIC EFFECTS: ANEMIA, AND SKIN LESIONS, KIDNEY DAMAGE, LIVER DAMAGE

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SECTION V - HEALTH HAZARD DATA (CONTINUED)

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TARGET ORGANS

BLOOD, CARDIOVASCULAR SYSTEM, LIVER, KIDNEYS, CENTRAL NERVOUS SYSTEM

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

CENTRAL NERVOUS SYSTEM DISORDERS, CARDIOVASCULAR DISORDERS, LIVER DISORDERS, BONE MARROW DISEASE, KIDNEY DISORDERS

PRIMARY ROUTES OF ENTRY

INHALATION, ABSORPTION, INGESTION, EYE CONTACT, SKIN CONTACT

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, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. THOROUGH CLEANSING OF THE ENTIRE CONTAMINATED AREA OF THE BODY INCLUDING SCALP AND NAILS IS OF THE UTMOST IMPORTANCE.

EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

NOTES TO PHYSICIAN

ABSORPTION OF THIS PRODUCT INTO THE BODY LEADS TO THE FORMATION OF METHEMOGLOBULIN. IF SIGNS OF EXCESSIVE METHEMOGLOBINEMIA DEVELOP (CYANOSIS, VOMITING, SHOCK, COMA) - GIVE 100% OXYGEN BY MASK AND 1% METHYLENE BLUE SOLUTION INTRAVENOUSLY (1 TO 2 MG/KG OF BODY WEIGHT OVER 5 TO 10 MINUTES). THIS MAY BE REPEATED IN 1 HOUR IF NECESSARY. THOROUGH CLEANSING OF THE ENTIRE CONTAMINATED AREA OF THE BODY IS OF UTMOST IMPORTANCE. REVERSION OF METHEMOGLOBIN TO HEMOGLOBIN OCCURS SPONTANEOUSLY. MODERATE DEGREES OF CYANOSIS NEED BE TREATED ONLY BY SUPPORTIVE MEASURES SUCH AS BED REST AND OXYGEN. CYANOCOBALAMIN (B12), 1 MG INTRAMUSCULARLY, MAY SPEED RECOVERY. INTRAVENOUS FLUIDS AND BLOOD TRANSFUSIONS MAY BE INDICATED IN VERY SEVERE CIRCUMSTANCES.

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SECTION V - HEALTH HAZARD DATA (CONTINUED)

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SARA/TITLE III HAZARD CATEGORIES AND LISTS

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

EXTREMELY HAZARDOUS SUBSTANCE: YES CONTAINS ANILINE (RQ = 5,000 LBS, TPQ =
1,000 LBS)

CERCLA HAZARDOUS SUBSTANCE: YES CONTAINS ANILINE (RQ = 5000 LBS)

SARA 313 TOXIC CHEMICALS: YES CONTAINS ANILINE

GENERIC CLASS: GENERIC CLASS REMOVED FROM CFR: 7/1/91

TSCA INVENTORY: YES

STATE LISTS: FOR PRODUCTS SOLD IN THE STATE OF CALIFORNIA, THE STATE REQUIRES
THAT WE PROVIDE TO USERS AND THEIR EMPLOYEES THE FOLLOWING MESSAGE: WARNING:
THIS PRODUCT IS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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SECTION VI - REACTIVITY DATA

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STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, FLAME, OTHER SOURCES OF IGNITION, AIR, LIGHT

INCOMPATIBLES: STRONG OXIDIZING AGENTS, STRONG BASES, STRONG ACIDS,
ALKALIES, ZINC, ALUMINUM, LEATHER, SOLUTIONS
CONTAINING IRON SALTS

DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN, AMMONIA, CARBON MONOXIDE, CARBON
DIOXIDE

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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. STOP LEAK IF
YOU CAN DO SO WITHOUT RISK. USE WATER SPRAY TO REDUCE VAPORS. TAKE UP
WITH SAND OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO
CONTAINER FOR LATER DISPOSAL. FLUSH AREA WITH WATER.

J. T. BAKER SOLUSORB(R) SOLVENT ADSORBENT IS RECOMMENDED FOR SPILLS OF THIS
PRODUCT.

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SECTION VII - SPILL & DISPOSAL PROCEDURES (CONTINUED)

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DISPOSAL PROCEDURE

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

EPA HAZARDOUS WASTE NUMBER: U012 (TOXIC WASTE)

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SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

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VENTILATION: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS UP TO 100 PPM, A CHEMICAL CARTRIDGE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IS RECOMMENDED. ABOVE THIS LEVEL, A SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

EYE/SKIN PROTECTION: SAFETY GOGGLES AND FACE SHIELD, UNIFORM, PROTECTIVE SUIT, BUTYL RUBBER GLOVES ARE RECOMMENDED.

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SECTION IX - STORAGE AND HANDLING PRECAUTIONS

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SAF-T-DATA* STORAGE COLOR CODE: RED (FLAMMABLE)

STORAGE REQUIREMENTS

KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-VENTILATED, FLAMMABLE LIQUID STORAGE AREA OR CABINET. KEEP PRODUCT OUT OF LIGHT.

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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DOMESTIC (D.O.T.)

PROPER SHIPPING NAME: ANILINE

HAZARD CLASS: 6.1

UN/NA: UN1547 REPORTABLE QUANTITY: 5000 LBS. PACKAGING GROUP: II

LEL: 6 POISON

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (CONTINUED)

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REGULATORY REFERENCES: 49CFR 172.101; 173.347

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME: ANILINE
HAZARD CLASS: 6.1
UN: UN1547 MARINE POLLUTANTS: NO
LABELS: POISON
REGULATORY REFERENCES: 49CFR PART 176; IMDG CODE

I.M.O. PAGE: 6068
PACKAGING GROUP: II

AIR (I.C.A.O.)

PROPER SHIPPING NAME: ANILINE
HAZARD CLASS: 6.1
UN: UN1547
LABELS: POISON
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).

PACKAGING GROUP: II

U.S. CUSTOMS HARMONIZATION NUMBER: 29214100003

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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

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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 REVISE THIS MATERIAL SAFETY DATA SHEET.

NOTE: CHEMTREC, CANUTEC, AND NATIONAL RESPONSE CENTER EMERGENCY TELEPHONE NUMBERS ARE TO BE USED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS. ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE (1-800-JTBAKER) FOR ASSISTANCE.

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APPROVED BY QUALITY ASSURANCE DEPARTMENT.