

J. T. BAKER CHEMICAL CO. 222 RED SCHOOL LANE, PHILLIPSBURG, NJ 08865
MATERIAL SAFETY DATA SHEET
24-HOUR EMERGENCY TELEPHONE -- (201) 859-2151
CHEMTREC # (800) 424-9300 -- NATIONAL RESPONSE CENTER # (800) 424-9802

E2915 -01

CHLOROFORM

PAGE

EFFECTIVE: 10/11/85

ISSUED: 01/23/88

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: CHLOROFORM
FORMULA: CHCL3
FORMULA WT: 119.38
CAS NO.: 00067-66-3
NIOSH/ RTECS NO.: FS2100000
COMMON SYNONYMS: TRICHLOROMETHANE; METHYL TRICHLORIDE
PRODUCT CODES: 9175, 9182, 9180, 9183, 9174, 9181, 9257, 9186, 9180

PRECAUTIONARY LABELLING

BAKER SAF-T-DATA(TM) SYSTEM

HEALTH - 3 (CANCER CAUSING)
FLAMMABILITY - 0
REACTIVITY - 1
CONTACT - 2

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

PRECAUTIONARY LABEL STATEMENTS

POISON DANGER

HARMFUL IF SWALLOWED OR INHALED
CAUSES IRRITATION

NOTE: REPORTED AS CAUSING CANCER IN LABORATORY ANIMALS. EXERCISE DUE CARE.
AVOID CONTACT WITH EYES, SKIN, CLOTHING.
AVOID BREATHING VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. USE WITH ADEQUATE
VENTILATION. WASH THOROUGHLY AFTER HANDLING.

SECTION II - HAZARDOUS COMPONENTS

COMPONENT	%	CAS NO.
CHLOROFORM	90-100	67-66

SECTION III - PHYSICAL DATA

BOILING POINT: 61 C (142 F) VAPOR PRESSURE (MM HG): 160
MELTING POINT: -64 C (-83 F) VAPOR DENSITY (AIR=1): 4.1
SPECIFIC GRAVITY: 1.47 (H2O=1) EVAPORATION RATE: 11 (BUTYL ACETATE=1)
SOLUBILITY (H2O): SLIGHT (0.1 TO 1 %) % VOLATILES BY VOLUME: 100

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SECTION III - PHYSICAL DATA (CONTINUED)

APPEARANCE & ODOR: CLEAR, COLORLESS LIQUID WITH PLEASANT, SWEET ODOR.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A NFPA 704M RATING: 2-0-0

FIRE EXTINGUISHING MEDIA

USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

TOXIC GASES PRODUCED

HYDROGEN CHLORIDE, CHLORINE, PHOSGENE

SECTION V - HEALTH HAZARD DATA

THIS SUBSTANCE IS LISTED AS ONE WHICH MAY BE REASONABLY ANTICIPATED TO BE A CARCINOGEN BY THE NATIONAL TOXICITY PROGRAM (NTP).

THRESHOLD LIMIT VALUE (TLV/TWA): 50 MG/M3 (10 FPM)

SHORT-TERM EXPOSURE LIMIT (STEL): 225 MG/M3 (50 FPM)

TOXICITY: LD50 (ORAL-RAT) (MG/KG) - 1124
LD50 (ORAL-MOUSE) (MG/KG) - 80
LC50 (INHAL-MOUSE) (G/M3) - 28

EFFECTS OF OVEREXPOSURE

CONTACT WITH SKIN HAS A DEFATTING EFFECT, CAUSING DRYING AND IRRITATION. OVEREXPOSURE TO VAPORS MAY CAUSE IRRITATION OF MUCCOUS MEMBRANES, DRYNESS OF MOUTH AND THROAT, HEADACHE, NAUSEA AND DIZZINESS. CHRONIC EFFECTS OF OVEREXPOSURE MAY INCLUDE KIDNEY AND/OR LIVER DAMAGE.

EMERGENCY AND FIRST AID PROCEDURES

CALL A PHYSICIAN.

IF SWALLOWED, IF CONSCIOUS, IMMEDIATELY INDUCE VOMITING.

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

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

SECTION VI - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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SECTION VI - REACTIVITY DATA (CONTINUED)

CONDITIONS TO AVOID: HEAT, LIGHT

INCOMPATIBLES: STRONG BASES, CHEMICALLY ACTIVE METALS

DECOMPOSITION PRODUCTS: OXIDES OF CHLORINE, CHLORINE, HYDROGEN CHLORIDE

SECTION VII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.
STOP LEAK IF YOU CAN DO SO WITHOUT RISK. USE WATER SPRAY TO REDUCE VAPOR.
TAKE UP WITH SAND OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL AND PLACE
INTO CONTAINER FOR LATER DISPOSAL. FLUSH SPILL AREA WITH WATER.

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

DISPOSAL PROCEDURE

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

EPA HAZARDOUS WASTE NUMBER: U044 (TOXIC WASTE)

SECTION VIII - PROTECTIVE EQUIPMENT

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

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION REQUIRED IF AIRBORNE
CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS
ABOVE 10 PPM, A SELF-CONTAINED BREATHING
APPARATUS IS ADVISED.

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

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA(TM) STORAGE COLOR CODE: BLUE

SPECIAL PRECAUTIONS

KEEP CONTAINER TIGHTLY CLOSED. STORE IN SECURE POISON AREA.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (CONTINUED)

PROPER SHIPPING NAME CHLOROFORM (AIR AND WATER ONLY)
HAZARD CLASS ORM-A
UN/NA UN1888
LABELS NONE
REPORTABLE QUANTITY 5000 LBS.

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME CHLOROFORM
HAZARD CLASS 6.1
UN/NA UN1888
LABELS POISON

(TM) AND (R) DESIGNATE TRADEMARKS.
N/A = NOT APPLICABLE OR NOT AVAILABLE

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND DATA PRESENTED IN VARIOUS TECHNICAL PUBLICATIONS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

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