

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) 424-8802

1036 -01
 EFFECTIVE: 10/02/85

ACETIC ACID, GLACIAL

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 ISSUED: 01/24/86

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: ACETIC ACID, GLACIAL
 FORMULA: CH3COOH
 FORMULA WT: 60.05
 CAS NO.: 00064-19-7
 OSHA/RTECS NO.: AF1225000
 COMMON SYNONYMS: ETHANOIC ACID; METHANE CARBOXYLIC ACID; ETHYLIC ACID
 PRODUCT CODES: 9506,9522,9524,9503,9501,9508,9507,5355,9520,9511,4803,9501,9515

PRECAUTIONARY LABELLING

BAKER SAF-T-DATA(TM) SYSTEM

HEALTH - 2
 FLAMMABILITY - 2
 REACTIVITY - 2
 CONTACT - 3 (CORROSIVE)

LABORATORY PROTECTIVE EQUIPMENT

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

PRECAUTIONARY LABEL STATEMENTS

POISON DANGER
 CAUSES SEVERE BURNS
 COMBUSTIBLE

KEEP AWAY FROM HEAT, SPARKS, FLAME. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
 AVOID BREATHING 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. FLUSH SPILL AREA WITH WATER

SECTION II - HAZARDOUS COMPONENTS

COMPONENT	%	CAS NO.
ACETIC ACID, GLACIAL	90-100	64-19-7

SECTION III - PHYSICAL DATA

BOILING POINT: 118 C (244 F) VAPOR PRESSURE(MM HG): 11
 MELTING POINT: 17 C (63 F) VAPOR DENSITY(AIR=1): 2.1

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SECTION III - PHYSICAL DATA (CONTINUED)

SPECIFIC GRAVITY: 1.05
(H2O=1)

EVAPORATION RATE: 0.97
(BUTYL ACETATE=1)

SOLUBILITY(H2O): COMPLETE (IN ALL PROPORTIONS) % VOLATILES BY VOLUME: 100

APPEARANCE & ODOR: COLORLESS LIQUID WITH STRONG VINEGAR-LIKE ODOR.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 39 C (103 F) NFPA 704M RATING: 2-2-1

FLAMMABLE LIMITS: UPPER - 16.0 % LOWER - 5.4 %

FIRE EXTINGUISHING MEDIA
USE WATER SPRAY, ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

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

GIVES OFF FLAMMABLE VAPORS. VAPORS MAY FORM EXPLOSIVE MIXTURE WITH AIR. CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE. CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE OR EXPLOSION.

TOXIC GASES PRODUCED
ACETIC ACID

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV/TWA): 25 MG/M3 (10 PPM)

SHORT-TERM EXPOSURE LIMIT (STEL): 37 MG/M3 (15 PPM)

TOXICITY: LD50 (ORAL-RAT)(MG/KG) - 3310
LC50 (INHL-MOUSE) (PPM) - 5620
LD50 (SKIN-RABBIT)(MG/KG) - 1060

EFFECTS OF OVEREXPOSURE

LIQUID MAY CAUSE SEVERE BURNS TO SKIN AND EYES.

LIQUID MAY CAUSE PERMANENT EYE DAMAGE.

INHALATION OF VAPORS MAY CAUSE COUGHING, CHEST PAINS, NAUSEA AND VOMITING.

INGESTION MAY RESULT IN SEVERE INTESTINAL IRRITATION WITH BURNS TO MOUTH.

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SECTION V - HEALTH HAZARD DATA (CONTINUED)

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EMERGENCY AND FIRST AID PROCEDURES

CALL A PHYSICIAN.
IF SWALLOWED, DO NOT INDUCE VOMITING; IF CONSCIOUS, GIVE WATER, MILK, OR MILK OF MAGNESIA.
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 OR SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
WASH CLOTHING BEFORE RE-USE.

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SECTION VI - REACTIVITY DATA

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STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, SOURCES OF IGNITION, FLAME

COMPATIBLES: STRONG OXIDIZING AGENTS,
MOST COMMON METALS (EXCEPT ALUMINUM), CHROMIC ACID,
NITRIC ACID, HYDROGEN PEROXIDE, STRONG BASES

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SECTION VII - SPILL AND 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. NEUTRALIZE SPILL WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, CAREFULLY PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER. REMOVE FROM SPILL AREA. FLUSH AREA WITH WATER.

J. T. BAKER NEUTRASORB(R) OR NEUTRASOL(R) "LOW NA+" ACID NEUTRALIZERS ARE RECOMMENDED FOR SPILLS OF THIS PRODUCT.

DISPOSAL PROCEDURE

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

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

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SECTION VIII - 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 500 PPM, A CHEMICAL CARTRIDGE RESPIRATOR WITH ACID/ORGANIC CARTRIDGE IS RECOMMENDED. ABOVE THIS

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SECTION VIII - PROTECTIVE EQUIPMENT (CONTINUED)

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LEVEL, A SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

EYE/SKIN PROTECTION: SAFETY GOGGLES AND FACE SHIELD, UNIFORM, PROTECTIVE SUIT, ACID-RESISTANT GLOVES ARE RECOMMENDED.

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SECTION IX - STORAGE AND HANDLING PRECAUTIONS

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

SPECIAL PRECAUTIONS
KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-VENTILATED, FLAMMABLE LIQUID STORAGE AREA OR CABINET.

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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MESTIC (D.O.T.)

PROPER SHIPPING NAME	ACETIC ACID, GLACIAL
HAZARD CLASS	CORROSIVE MATERIAL (LIQUID)
UN/NA	UN2789
LABELS	CORROSIVE
REPORTABLE QUANTITY	1000 LBS.

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME	ACETIC ACID, GLACIAL
HAZARD CLASS	8
UN/NA	UN2789
LABELS	CORROSIVE, FLAMMABLE LIQUID

(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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