



chemists helping chemists in research & industry

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DATE: 07/20/94
CUST#: 938609
PO#: P0077512

M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 1

SECTION 1. - - - - - CHEMICAL IDENTIFICATION- - - - -

PRODUCT #: 10652-6 NAME: FORMIC ACID, 95-97%

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 64-18-6
MF: CH2O2

SYNONYMS

ACIDE FORMIQUE (FRENCH) * ACIDO FORMICO (ITALIAN) * AMEISENSAEURE
(GERMAN) * AMINIC ACID * FORMIC ACID (ACGIH, DOT, OSHA) * FORMYLIC ACID
* HYDROGEN CARBOXYLIC ACID * KWAŚ METANOWY (POLISH) * KYSELINA
MRAVENCI (CZECH) * METHANOIC ACID * MIERENZUUR (DUTCH) * RCRA WASTE
NUMBER U123 * UN1779 (DOT) *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

CORROSIVE
CAUSES BURNS.
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
COMBUSTIBLE.
MAY DEVELOP PRESSURE.
READILY ABSORBED THROUGH SKIN.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
DO NOT BREATHE VAPOR.
HYGROSCOPIC

SECTION 4. - - - - - FIRST-AID MEASURES- - - - -

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

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M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 2

PRODUCT #: 106526
MF: CH2O2

NAME: FORMIC ACID, 95-97%

CUST#: 938609
PO#: P0077512

CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.
DISCARD CONTAMINATED SHOES.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

COMBUSTIBLE LIQUID.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

VACUATE AREA.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -
REFER TO SECTION 8.

ADDITIONAL INFORMATION

INCOMPATIBILITY: REACTS VIOLENTLY WITH FURFURYL ALCOHOL, HYDROGEN PEROXIDE, HYDRATED THALLIUM NITRATE, PERMANGANATES. CONTACT WITH CONCENTRATED SULFURIC ACID RESULTS IN THE FORMATION OF TOXIC AND FLAMMABLE CARBON MONOXIDE GAS.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

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PAGE 3

CUST#: 938609
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PRODUCT #: 106526 NAME: FORMIC ACID, 95-97%
MF: CH2O2

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
FACESHIELD (8-INCH MINIMUM).
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
READILY ABSORBED THROUGH SKIN.
WASH THOROUGHLY AFTER HANDLING.
CORROSIVE.
TOXIC.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT AND OPEN FLAME.
MAY DEVELOP PRESSURE.
VENT PERIODICALLY.
HYGROSCOPIC
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR

COLORLESS LIQUID

BOILING POINT: 100.8 C

MELTING POINT: 8.5 C

FLASHPOINT 156 F

68C

AUTOIGNITION TEMPERATURE: 1004 F 539C

UPPER EXPLOSION LEVEL: 57%

LOWER EXPLOSION LEVEL: 18%

VAPOR PRESSURE: 44.8MM 20 C

VAPOR DENSITY: 1.6

SPECIFIC GRAVITY: 1.220

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS

STRONG BASES

CONTINUED ON NEXT PAGE

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M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 4

CUST#: 938609
PO#: P0077512

PRODUCT #: 106526 NAME: FORMIC ACID, 95-97%
MF: CH2O2

FINELY POWDERED METALS
PROTECT FROM MOISTURE.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

SECTION II. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA
OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
VOMITING.

RTECS NO: LQ4900000

FORMIC ACID

IRRITATION DATA

SKN-RBT 610 MG OPEN MLD
EYE-RBT 122 MG SEV

UCDS** 8/5/68
UCDS** 8/5/68

TOXICITY DATA

ORL-WMN LD50:2440 UG/KG
ORL-RAT LD50:1100 MG/KG
IHL-RAT LC50:15 GM/M3/15M
ORL-MUS LD50:700 MG/KG
IHL-MUS LC50:6200 MG/M3/15M
IPR-MUS LD50:940 MG/KG
IVN-MUS LD50:145 MG/KG
ORL-DQG LD50:4 GM/KG

AJEMEN 7,286.89
GTPZAB 23(12),49.79
GTPZAB 23(12),49.79
GTPZAB 23(12),49.79
GTPZAB 23(12),49.79
IGIBA5 11,507.62
ZERNAL 9,332.69
AMIHAB 20,517.59

TARGET ORGAN DATA

BEHAVIORAL (SOMNOLENCE)
VASCULAR (SHOCK)
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)
KIDNEY, URETER, BLADDER (OTHER CHANGES IN URINE COMPOSITION)
BLOOD (OTHER HEMOLYSIS WITH OR WITHOUT ANEMIA)
NUTRITIONAL AND GROSS METABOLIC (CHANGES IN: METABOLIC ACIDOSIS)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR

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PAGE 5

CUST#: 938609
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PRODUCT #: 106526 NAME: FORMIC ACID, 95-97%
MF: CH2O2

COMPLETE INFORMATION.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

THIS COMBUSTIBLE MATERIAL MAY BE BURNED IN A CHEMICAL INCINERATOR
EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 5 PPM; STEL 10 PPM
MSHA STANDARD-AIR: TWA 5 PPM (9 MG/M3)
DTLVS* 3,119,71
OSHA PEL: 8H TWA 5 PPM (9 MG/M3)
FEREAC 54,2923,89
OSHA PEL FINAL: 8H TWA 5 PPM (9 MG/M3)
FEREAC 54,2923,89
OEL-ARAB REPUBLIC OF EGYPT: TWA 5 PPM (9 MG/M3) JAN93
OEL-AUSTRALIA: TWA 5 PPM (9 MG/M3) JAN93
OEL-AUSTRIA: TWA 5 PPM (9 MG/M3) JAN93
OEL-BELGIUM: TWA 5 PPM (9.4 MG/M3) JAN93
OEL-DENMARK: TWA 5 PPM (9 MG/M3) JAN93
OEL-FINLAND: TWA 5 PPM (9 MG/M3); STEL 10 PPM (18 MG/M3); SKIN JAN93
OEL-FRANCE: STEL 5 PPM (9 MG/M3) JAN93
OEL-GERMANY: TWA 5 PPM (9 MG/M3) JAN93
OEL-HUNGARY: TWA 5 MG/M3; STEL 8 MG/M3 JAN93
OEL-JAPAN: TWA 5 PPM (9.4 MG/M3) JAN93
OEL-THE NETHERLANDS: TWA 5 PPM (9 MG/M3) JAN93
OEL-THE PHILIPPINES: TWA 5 PPM (9 MG/M3) JAN93
OEL-RUSSIA: TWA 5 PPM; STEL 1 MG/M3; SKIN JAN93

85INAB 6,692,91

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M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 6

PRODUCT #: 106526
MF: CH202

NAME: FORMIC ACID, 95-97%

CUST#: 938609
PO#: P0077512

OEL-SWITZERLAND:TWA 5 PPM (9 MG/M3);STEL 10 PPM (18 MG/M3) JAN93
OEL-UNITED KINGDOM:TWA 5 PPM (9 MG/M3) JAN93
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO FORMIC ACID-AIR:10H TWA 5 PPM
NIOSH* DHHS #92-100,92
NIOSH 1974: HZD 33720; NIS 59; TNF 3537; NOS 48; TNE 34087
NIOSH 1983: HZD 33720; NIS 88; TNF 5822; NOS 71; TNE 146201; TFE 36902
EPA TSCA CHEMICAL INVENTORY, JUNE 1993
ON EPA IRIS DATABASE
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1994
NIOSH ANALYTICAL METHODS: SEE FORMIC ACID S173
NTP TOXICITY STUDIES, RPT# TOX-19, AS OF JANUARY 1994
OSHA ANALYTICAL METHOD #10-112
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

SECTION 16. - - - - - OTHER INFORMATION - - - - -

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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