



chemists helping chemists in research & industry

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Rev: 2/14/1994

4627

ATTN: SAFETY DIRECTOR  
UNIVERSITY OF NEVADA/RENO

CHARLIE FONG  
SAFETY AND LOSS CONTROL  
ARTEMISIA BUILDING  
RENO NV 89557

DATE: 02/14/94  
CUST#: 351253  
PO#: 1022551

*John Miller*

M A T E R I A L   S A F E T Y   D A T A   S H E E T      P A G E   1

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

PRODUCT #: 32808-1      NAME: DIMETHYLMERCURY, 95%

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

CAS #: 593-74-8  
MF: C2H6HG

SYNONYMS  
DIMETHYL MERCURY \*

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA DEFINITION)  
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)  
HIGHLY TOXIC (USA DEFINITION)  
TOXIC (EUROPEAN DEFINITION)  
MAY CAUSE BIRTH DEFECTS.  
VERY TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.  
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
NEUROLOGICAL HAZARD.  
TARGET ORGAN(S):  
KIDNEYS  
KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.  
IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE).  
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.  
DO NOT BREATHE FUMES.  
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.

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.  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL

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PAGE 2

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PRODUCT #: 328081      NAME: DIMETHYLMERCURY, 95%  
MF: C2H5HG

RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
CALL A PHYSICIAN IMMEDIATELY.  
WASH CONTAMINATED CLOTHING BEFORE REUSE.

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

EXTINGUISHING MEDIA

WATER SPRAY.  
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.

FLAMMABLE LIQUID.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND  
FLASH BACK.  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

EVACUATE AREA.  
SHUT OFF ALL SOURCES OF IGNITION.  
WEAR FULL PROTECTIVE EQUIPMENT SUCH AS, A BUTYL RUBBER CHEMICAL-PROOF  
AIR SUIT, WITH BREATHING AIR SUPPLIED.  
COVER WITH DRY-LIME, SAND, OR SODA ASH. PLACE IN COVERED CONTAINERS  
USING NON-SPARKING TOOLS AND TRANSPORT OUTDOORS.  
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. ----- HANDLING AND STORAGE -----

REFER TO SECTION 8.

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

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT

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PRODUCT #: 328081      NAME: DIMETHYLMERCURY, 95%  
MF: C2H6HG

GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.  
SAFETY SHOWER AND EYE BATH.  
USE ONLY IN A CHEMICAL FUME HOOD.  
USE NONSPARKING TOOLS.  
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.  
HIGHLY TOXIC.  
IRRITANT.  
NEUROLOGICAL HAZARD.  
TERATOGEN.  
KEEP TIGHTLY CLOSED.  
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

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

APPEARANCE AND ODOR  
COLORLESS LIQUID  
BOILING POINT: 93 C TO 94 C  
MELTING POINT: -43 C TO C  
FLASHPOINT 42 F  
                  5C  
SPECIFIC GRAVITY: 2.961

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

INCOMPATIBILITIES  
STRONG OXIDIZING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE  
MERCURY/MERCURY OXIDES

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS

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PAGE 4

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PRODUCT #: 328081 NAME: DIMETHYLMERCURY, 95%  
MF: C2H6HG

MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.  
CAUSES EYE AND SKIN IRRITATION.  
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT.  
MAY CAUSE NERVOUS SYSTEM DISTURBANCES.

CHRONIC EFFECTS

MAY CAUSE CONGENITAL MALFORMATION IN THE FETUS.

TARGET ORGAN(S):

NERVES  
KIDNEYS

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

ADDITIONAL INFORMATION

IN CONTRAST TO INORGANIC MERCURY COMPOUNDS, ALKYL MERCURY COMPOUNDS  
RAPIDLY PASS THROUGH THE PLACENTA AND BLOOD BRAIN BARRIER. THE  
PERIPHERAL AND CENTRAL NERVOUS SYSTEMS AND THE KIDNEY ARE MAJOR  
TARGET ORGANS. METHYLMERCURY POISONING SYMPTOMS RESULT PRIMARILY FROM  
DAMAGE TO THE NERVOUS SYSTEM. THE SYMPTOMS ARE PRIMARILY  
CHARACTERIZED BY LOSS OF SENSATION IN THE HANDS AND FEET AND IN AREAS  
AROUND THE MOUTH, DIMINUTION OF VISION RESULTING IN TUNNEL VISION,  
ATAXIA, DYSARTHIA AND HEARING LOSS. SEVERE POISONING PRODUCES  
BLINDNESS, COMA AND DEATH. THERE IS A LATENT PERIOD OF WEEKS TO  
MONTHS BEFORE DEVELOPMENT OF THE POISONING SYMPTOMS. MERCURY SHOWS A  
SPECIFICITY TO DAMAGE SMALL NERVE CELLS IN THE CEREBELLUM AND VISUAL  
CORTEX. METHYLMERCURY CAUSES DEGENERATION AND NECROSIS OF NEURONS IN  
THE FOCAL AREAS OF THE CEREBRAL CORTEX, ESPECIALLY WITHIN THE VISUAL  
AREAS OF THE OCCIPITAL CORTEX AND THE GRANULAR LAYER OF THE  
CEREBELLUM. IT HAS BEEN FOUND THAT METHYLMERCURY INHIBITS PROTEIN  
SYNTHESIS IN THE BRAIN BEFORE SYMPTOMS OF POISONING APPEAR AND THAT  
RECOVERY OF PROTEIN SYNTHESIS DOES NOT OCCUR IN GRANULAR CELLS AS IT  
DOES RECOVER IN OTHER NEURONAL CELL TYPES. CONSUMPTION BY PREGNANT  
WOMEN HAS CAUSED SERIOUS NEUROLOGICAL DISORDERS IN THEIR OFFSPRING  
RESULTING IN MENTAL RETARDATION WITH CEREBRAL PALSY. ACUTE EXPOSURE  
TO NONLETHAL LEVELS OF METHYLMERCURY RESULTS IN SEVERELY DEPRESSED  
LYMPHOCYTE RESPONSE TO T-CELL MITOGENS THUS DEPRESSING POLYCLONAL  
ACTIVATION OF LYMPHOCYTES BY T-CELL MITOGENS AND ANTIBODY RESPONSES  
TO SPECIFIC ANTIGENIC STIMULATION.

RTECS NO: DW301000

MERCURY, DIMETHYL

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

PRODUCT #: 328081  
MF: C2H6HG

NAME: DIMETHYLMERCURY, 95%

CUST#: 351253  
PO#: 1022551

COMPLETE INFORMATION.

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

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

THE MATERIAL SHOULD BE DISSOLVED IN 1) WATER; 2) ACID SOLUTION OR 3) OXIDIZED TO A WATER-SOLUBLE STATE. PRECIPITATE THE MATERIAL AS THE SULFIDE, ADJUSTING THE PH OF THE SOLUTION TO 7 TO COMPLETE PRECIPITATION. FILTER THE INSOLUBLES AND DISPOSE OF THEM IN A HAZARDOUS-WASTE SITE. DESTROY ANY EXCESS SULFIDE WITH SODIUM HYPOCHLORITE. NEUTRALIZE THE SOLUTION BEFORE FLUSHING DOWN THE DRAIN. 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 0.01 MG(HG)/M3; STEL 0.03 MG(HG)/M3 85INA8 5,360,86  
MSHA STANDARD-AIR:TWA 0.001 PPM (0.01 MG(HG)/M3)  
DTLWS\* 3,22,73  
OSHA PEL:8H TWA 0.01 MG(HG)/M3;CL 0.04 MG(HG)/M3  
FEREAC 54,2923,89  
OSHA PEL FINAL:8H TWA 0.01 MG(HG)/M3;STEL 0.03 MG(HG)/M3 (SKIN)  
FEREAC 54,2923,89  
OEL-AUSTRALIA:TWA 0.01 MG(HG)/M3;STEL 0.03 MG(HG)/M3;SKIN JANUARY 1993  
OEL-BELGIUM:TWA 0.01 MG(HG)/M3;STEL 0.03 MG(HG)/M3;SKIN JANUARY 1993  
OEL-DENMARK:TWA 0.01 MG(HG)/M3;SKIN JANUARY 1993  
OEL-FINLAND:TWA 0.01 MG(HG)/M3;SKIN JANUARY 1993  
OEL-FRANCE:TWA 0.01 MG(HG)/M3;SKIN JANUARY 1993  
OEL-THE NETHERLANDS:TWA 0.01 MG(HG)/M3;STEL 0.02 MG(HG)/M3;SKIN JANUARY 1993  
OEL-THE PHILIPPINES:TWA 0.01 MG(HG)/M3 JANUARY 1993

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MF: C2H6HG

NAME: DIMETHYLMERCURY, 95%

CUST#: 351253  
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OEL-THAILAND:TWA 0.01 MG(HG)/M3;STEL 0.04 MG(HG)/M3 JANUARY 1993  
OEL-TURKEY:TWA 0.01 MG(HG)/M3;SKIN JANUARY 1993  
OEL-UNITED KINGDOM:TWA 0.01 MG(HG)/M3;STEL 0.03 MG(HG)/M3;SKIN  
JANUARY 1993  
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE,  
VIETNAM CHECK ACCIH TLV  
EPA GENETOX PROGRAM 1988, NEGATIVE: IN VIVO CYTOGENETICS-MAMMALIAN  
OOCTE  
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: RODENT DOMINANT LETHAL  
EPA TSCA CHEMICAL INVENTORY, JANUARY 1993  
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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

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