



chemists helping chemists in research & industry

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DATE 08/13/96
CUST#: 938609
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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 1

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

CATALOG #: 20808-6
NAME: ZINC CHLORIDE, 98+%

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

CAS #: 7646-85-7
MF: CL2ZN
EC NO: 231-592-0

SYNONYMS

BUTTER OF ZINC * CHLORURE DE ZINC (FRENCH) * UN1840 (DOT) * UN2331 (DOT) * ZINC BUTTER * ZINC CHLORIDE, ANHYDROUS (UN2331) (DOT) * ZINC CHLORIDE, SOLUTION (UN1840) (DOT) * ZINC CHLORIDE FUME (ACGIH: OSHA) * ZINC (CHLORURE DE) (FRENCH) * ZINC DICHLORIDE * ZINCO (CLORURO DI) (ITALIAN) * ZINKCHLORID (GERMAN) * ZINKCHLORIDE (DUTCH) *

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

LABEL PRECAUTIONARY STATEMENTS

CORROSIVE
CAUSES BURNS.
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
POSSIBLE RISK OF IRREVERSIBLE EFFECTS.
POSSIBLE MUTAGEN.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
KEEP CONTAINER TIGHTLY CLOSED IN A COOL WELL-VENTILATED PLACE.

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.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

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 2

CATALOG #: 20808-6
NAME: ZINC CHLORIDE, 98+%

DISCARD CONTAMINATED SHOES.

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

EXTINGUISHING MEDIA
NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

EVACUATE AREA.

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

COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER
AND HOLD FOR WASTE DISPOSAL.

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
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 DUST.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

CORROSIVE.

TOXIC.

POSSIBLE MUTAGEN.

KEEP TIGHTLY CLOSED.

STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR

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PAGE 3

CATALOG #: 20808-6
NAME: ZINC CHLORIDE, 98+%

WHITE OR OFF-WHITE POWDER

PHYSICAL PROPERTIES

MELTING POINT: 293 C
VAPOR PRESSURE: 1MM 428 C
SPECIFIC GRAVITY: 2.910

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

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS
PROTECT FROM MOISTURE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

HYDROGEN CHLORIDE GAS
METAL OXIDES

SECTION 11. - - - - - 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.

CHRONIC EFFECTS

LABORATORY EXPERIMENTS HAVE SHOWN MUTAGENIC EFFECTS.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

ADDITIONAL INFORMATION

ZINC CHLORIDE AND ITS AQUEOUS SOLUTIONS ARE CORROSIVE TO THE EYES AND
SKIN. THEY CAUSE CONJUNCTIVITIS AND CORNEAL BURNS IN THE EYE AND
PRODUCE CHEMICAL BURNS, PARTICULARLY ON AREAS WHERE THE SKIN IS BROKEN.
INGESTION PRODUCES A CORROSIVE ACTION TO THE MOUTH, THROAT AND DIGESTIVE
TRACT WHICH CAN INCLUDE SYMPTOMS OF STOMACH PAIN, NAUSEA, VOMITING,
BLOODY DIARRHEA, SWELLING OF THE THROAT, BLOOD IN THE URINE AND SHOCK.
INHALATION IRRITATES THE NOSE AND THROAT PRODUCING COUGH, CHEST PAIN,
BLUISH SKIN, FEVER, NAUSEA AND VOMITING, SHORTNESS OF BREATH, DIFFICULTY
IN BREATHING (ONSET MAY BE DELAYED BY SEVERAL HOURS) AND PNEUMONIA.
FATALITIES HAVE OCCURRED BY INHALATION AND INGESTION.

RTECS #: ZH1400000

CONTINUED ON NEXT PAGE

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PAGE 4

CATALOG #: 20808-6
NAME: ZINC CHLORIDE, 98+%

ZINC CHLORIDE

TOXICITY DATA

ORL-RAT LD50:350 MG/KG
IPR-RAT LD50:58 MG/KG
IVN-RAT LD50:3690 UG/KG
ORL-MUS LD50:329 MG/KG
IPR-MUS LD50:24 MG/KG
SCU-MUS LD50:330 MG/KG
IVN-MUS LD50:9090 UG/KG
ORL-GPG LD50:200 MG/KG

FOREAE 7,313,42
VHTODE 30,224,88
INJPD2 23,153,91
INJPD2 23,153,91
TXAPA9 63,461,82
OYYAA2 8,1067,74
INJPD2 23,153,91
FOREAE 7,313,42

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (MIOSIS)
VASCULAR (BP ELEVATION NOT CHARACTERIZED IN AUTONOMIC SECTION)
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)
GASTROINTESTINAL (COLON TUMORS)
ENDOCRINE (CHANGE IN LH)
ENDOCRINE (CHANGE IN GONADOTROPINS)
PATERNAL EFFECTS (OTHER EFFECTS ON MALE)
EFFECTS ON FERTILITY (FEMALE FERTILITY INDEX)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
TUMORIGENIC EFFECTS (TESTICULAR TUMORS)
NUTRITIONAL AND GROSS METABOLIC (WEIGHT LOSS OR DECREASED WEIGHT GAIN)
TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -

DATA NOT YET AVAILABLE.

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

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF
THIS MATERIAL.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

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

EUROPEAN INFORMATION

CONTINUED ON NEXT PAGE

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PAGE 5

CATALOG #: 20808-6
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EC INDEX NO: 030-003-00-2
CORROSIVE

R 34
CAUSES BURNS.

S 7/8
KEEP CONTAINER TIGHTLY CLOSED AND DRY.

S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S 28
AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.

S 36/37/39
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAK
ACGIH TLV-TWA 1 MG/M3; STEL 2 MG/M3, VAPOR 85INA8 6,1748,91
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,7740,89
MSHA STANDARD-AIR:TWA 1 MG/M3 (FUME)
DTLVS* 3,283,71
OSHA PEL (GEN'INDU):8H TWA 1 MG/M3, FUME
CFRGBR 29,1910.1000,94
OSHA PEL (CONSTRUC):8H TWA 1 MG/M3, FUME
CFRGBR 29,1926.55,94
OSHA PEL (SHIPYARD):8H TWA 1 MG/M3, FUME
CFRGBR 29,1915.1000,93
OSHA PEL (FED CONT):8H TWA 1 MG/M3, FUME
CFRGBR 41,50-204.50,94
DEL-ARAB REPUBLIC OF EGYPT:TWA 1 MG/M3 (FUME) JAN93
DEL-AUSTRALIA:TWA 1 MG/M3;STEL 2 MG/M3 (FUME) JAN93
DEL-BELGIUM:TWA 1 MG/M3;STEL 2 MG/M3 (FUME) JAN93
DEL-DENMARK:TWA 0.5 MG/M3 (FUME) JAN93
DEL-FINLAND:TWA 1 MG/M3 (FUME) JAN93
DEL-FRANCE:TWA 1 MG/M3 (FUME) JAN93
DEL-THE NETHERLANDS:TWA 1 MG/M3 (FUME) JAN93
DEL-THE PHILIPPINES:TWA 1 MG/M3 (FUME) JAN93
DEL-SWEDEN:TWA 1 MG/M3 (FUME) JAN93
DEL-SWITZERLAND:TWA 1 MG/M3 (FUME) JAN93
DEL-THAILAND:TWA 1 MG/M3 (FUME) JAN93
DEL-TURKEY:TWA 1 MG/M3 (FUME) JAN93
DEL-UNITED KINGDOM:TWA 1 MG/M3;STEL 2 MG/M3 (FUME) JAN93

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PAGE 6

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DEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
DEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO ZINC CHLORIDE FUME-AIR:10H TWA 1 MG/M3;STEL 2 MG/M3
NIOSH* DHHS #92-100,92
NOHS 1974: HZD 77150; NIS 192; TNF 20416; NOS 84; TNE 185570
NOES 1983: HZD 77150; NIS 172; TNF 22612; NOS 115; TNE 353004; TFE
87750
EPA GENETOX PROGRAM 1988, POSITIVE: CELL TRANSFORM.-SA7/SHE;
HOST-MEDIATED ASSAY
EPA GENETOX PROGRAM 1988, POSITIVE: HISTIDINE REVERSION-AMES TEST
EPA GENETOX PROGRAM 1988, NEGATIVE: IN VITRO CYTOGENETICS-HUMAN
LYMPHOCYTE
EPA GENETOX PROGRAM 1988, NEGATIVE: B SUBTILIS REC ASSAY; SPERM
MORPHOLOGY-MOUSE
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1996
OSHA ANALYTICAL METHOD #ID-125G

U.S. INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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

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