Section 1 - Product and Company Information

Product Name                               CHLORDIAZEPOXIDE
                                               HYDROCHLORIDE—DEA &
Product Number                             C2517
Brand                                      SIGMA

Company                             Sigma-Aldrich Canada, Ltd
Street Address                         2149 Winston Park Drive
City, State, Zip, Country             Oakville ON L6H 6J8 CA
Technical Phone:                      9058299500
Emergency Phone:                      800-424-9300
Fax:                                   9058299292

Section 2 - Composition/Information on Ingredient

Substance Name                         CHLORDIAZEPOXIDE HYDROCHLORIDE
                                               CAS #                  SARA 313
                                               438-41-5               No

Formula                                    C16H14ClN3O.ClH
Synonyms                          Ansiacal * A-Poxide * Benzodiapin *
                                               3H-1,4-Benzodiazepin-2-amine,
                                               7-chloro-N-methyl-5-phenyl-4-oxide,
                                               monohydrochloride * Calmoden * Cebrum *
                                               Chlordiazachel * Chlordiazepoxide hydrochloride *
                                               Chlordiazepoxide monohydrochloride * Contol *
                                               Diazachel (Obs.) * Droxol * Equibral * J-Liberty *
                                               * Labican * Lentotran * Librium hydrochloride *
                                               Methaminodiazepoxide hydrochloride * Murcil *
                                               Novosed * Psichial * Reliberan * Ro 5-0690 *
                                               Seren vita * SK-Lygen * Sophiamin * Tensinyl *
                                               Timosin * Trakipeal * Viansin

RTECS Number:                           DE9450000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Harmful.
Harmful if swallowed. Possible risk of impaired fertility.
Possible risk of harm to the unborn child. Possible risk of irreversible effects.
Calif. Prop. 65 reproductive hazard. Possible mutagen. Target organ(s): Brain.

HMIS RATING
HEALTH: 1 *
FLAMMABILITY: 0
REACTIVITY: 0

NFPA RATING
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
*additional chronic hazards present.*

For additional information on toxicity, please refer to Section 11.

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**Section 4 - First Aid Measures**

**ORAL EXPOSURE**
- If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**INHALATION EXPOSURE**
- If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**DERMAL EXPOSURE**
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**EYE EXPOSURE**
- In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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**Section 5 - Fire Fighting Measures**

**FLASH POINT**
- N/A

**AUTOIGNITION TEMP**
- N/A

**FLAMMABILITY**
- N/A

**EXTINGUISHING MEDIA**
- Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**FIREFIGHTING**
- Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Specific Hazard(s): Emits toxic fumes under fire conditions.

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**Section 6 - Accidental Release Measures**

**PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL**
- Evacuate area.

**PROCEDURE(S) OF PERSONAL PRECAUTION(S)**
- Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

**METHODS FOR CLEANING UP**
- Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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**Section 7 - Handling and Storage**

**HANDLING**
User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
   Suitable: Keep tightly closed.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
   Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT
   Respiratory: Government approved respirator.
   Hand: Compatible chemical-resistant gloves.
   Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES
   Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

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<th>Property</th>
<th>Value</th>
<th>At Temperature or Pressure</th>
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<td>Molecular Weight</td>
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<td>Solubility</td>
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N/A = not available

Section 10 - Stability and Reactivity

STABILITY
   Stable: Stable.
   Materials to Avoid: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE
Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: Harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)
Brain.

SIGNS AND SYMPTOMS OF EXPOSURE
Other effects include confusion, light-headedness, drowsiness, and syncope. CNS depression. Ataxia. Exposure can cause:
Prolonged or repeated exposure can lead to habituation or addiction. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Oral
Rat
537 mg/kg
LD50

Intraperitoneal
Rat
276 MG/KG
LD50

Subcutaneous
Rat
800 MG/KG
LD50

Intravenous
Rat
165 MG/KG
LD50

Oral
Mouse
530 mg/kg
LD50

Intraperitoneal
Mouse
200 MG/KG
LD50

Subcutaneous
Mouse
530 MG/KG  
LD50  

**Intravenous**  
Mouse  
95 MG/KG  
LD50  
Remarks: Lungs, Thorax, or Respiration: Respiratory depression.  

**Parenteral**  
Mouse  
700 MG/KG  
LD50  

**Oral**  
Dog  
1000 mg/kg  
LD50  

**Oral**  
Rabbit  
590 mg/kg  
LD50  
Remarks: Lungs, Thorax, or Respiration: Respiratory depression.  
Behavioral: Somnolence (general depressed activity).

**Intravenous**  
Rabbit  
36 MG/KG  
LD50  
Behavioral: Altered sleep time (including change in righting reflex).

**Oral**  
Quail  
1000 mg/kg  
LD50  

**CHRONIC EXPOSURE - TERATOGEN**  
Result: Possible risk of congenital malformation in the fetus.

**Species:** Rat  
**Dose:** 525 MG/KG  
**Route of Application:** Oral  
**Exposure Time:** (1-21D PREG)  
**Result:** Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

**Species:** Rat  
**Dose:** 1050 MG/KG  
**Route of Application:** Oral  
**Exposure Time:** (1-21D PREG)  
**Result:** Specific Developmental Abnormalities: Musculoskeletal system. Effects on Newborn: Stillbirth. Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).
Species: Mouse  
Dose: 48 GM/KG  
Route of Application: Oral  
Exposure Time: (30D MALE)  
Result: Effects on Embryo or Fetus: Fetal death.

Species: Hamster  
Dose: 28500 UG/KG  
Route of Application: Intraperitoneal  
Exposure Time: (8D PREG)  
Result: Specific Developmental Abnormalities: Central nervous system.

Species: Hamster  
Dose: 2410 MG/KG  
Route of Application: Parenteral  
Exposure Time: (8D PREG)  
Result: Specific Developmental Abnormalities: Body wall.

CHRONIC EXPOSURE - MUTAGEN  
Result: Laboratory experiments have shown mutagenic effects.

Species: Mouse  
Route: Oral  
Dose: 188 MG/KG  
Mutation test: Micronucleus test

Species: Mouse  
Route: Intraperitoneal  
Dose: 67 MG/KG  
Mutation test: Micronucleus test

Species: Mouse  
Route: Oral  
Dose: 96 GM/KG  
Exposure Time: 30D  
Mutation test: Dominant lethal test

Species: Mouse  
Dose: 188 MG/KG  
Cell Type: S. typhimurium  
Mutation test: Host-mediated assay

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat  
Dose: 2100 MG/KG  
Route of Application: Oral  
Exposure Time: (1-21D PREG)  
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Species: Hamster  
Dose: 28500 UG/KG  
Route of Application: Intraperitoneal  
Exposure Time: (8D PREG)  
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Urogenital system.

Species: Hamster  
Dose: 280 MG/KG
Route of Application: Parenteral
Exposure Time: (8D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g.,
dead and/or resorbed implants per total number of implants).
Specific Developmental Abnormalities: Central nervous system.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Contact the Drug Enforcement Administration concerning the
disposal of controlled substances. Observe all federal, state, and
local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is
considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air
transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION
Symbol of Danger: Xn
Indication of Danger: Harmful.
R: 22-62-63-68
Risk Statements: Harmful if swallowed. Possible risk of impaired
fertility. Possible risk of harm to the unborn child. Possible
risk of irreversible effects.
S: 22-36/37
Safety Statements: Do not breathe dust. Wear suitable protective
clothing and gloves.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Harmful.
Risk Statements: Harmful if swallowed. Possible risk of impaired
fertility. Possible risk of harm to the unborn child. Possible
risk of irreversible effects.
Safety Statements: Do not breathe dust. Wear suitable protective
clothing, gloves, and eye/face protection.
US Statements: Calif. Prop. 65 reproductive hazard. Possible
mutagen. Target organ(s): Brain.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No

UNITED STATES - STATE REGULATORY INFORMATION

CALIFORNIA PROP - 65
California Prop - 65: This product is or contains chemical(s)
known to the state of California to cause developmental
toxicity. This product is or contains chemical(s) known to the
state of California to cause developmental toxicity.
CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No
NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., 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. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.