

MATERIAL NAME: LIBRIUM(R) CAPSULE MIX (10 MG)  
MATERIAL CODE: 76201  
MSDS NUMBER : M-012380.ASC

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APPROVED: 02/28/96

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#### MATERIAL SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME : LIBRIUM(R) CAPSULE MIX (10 MG)  
INVENTORY CODE : 76201  
TSCA STATUS : FDA EXEMPTION - NOT ON INVENTORY.  
THERAPEUTIC CATEGORY: SEDATIVE (HYPNOTIC)

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	CONCENTRATION %
STARCH	9005-25-8	15 APROX.
TALC	14807-96-6	2.44
CHLORDIAZEPOXIDE HYDROCHLORIDE	438-41-5	2-13 APROX.

### SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW  
PHYSICAL STATE : POWDER.

POSSIBLE DUST EXPLOSION HAZARD BASED ON INFORMATION ON RELATED MATERIALS.  
VIOLENT DECOMPOSITION MAY OCCUR WHEN HEATED OR IN A FIRE BASED ON INFORMATION ON RELATED MATERIALS.  
CAUSES CENTRAL NERVOUS SYSTEM DEPRESSION.

POTENTIAL HEALTH EFFECTS  
RELEVANT ROUTES OF  
EXPOSURE : INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.  
TARGET ORGANS : RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM,  
HEMATOPOIETIC/ BLOOD SYSTEM, HEPATIC SYSTEM.

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### SECTION 3. HAZARDS IDENTIFICATION (CONTINUED. . .)

#### ACUTE EFFECTS

GENERAL : MAY CAUSE MUCOUS MEMBRANE IRRITATION (INFLAMMATION).  
MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS  
HEADACHE, DIZZINESS, DROWSINESS, FATIGUE, AND LACK OF  
MUSCULAR COORDINATION. CAUSES CENTRAL NERVOUS SYSTEM  
DEPRESSION. MAY CAUSE BLOOD SYSTEM CHANGES. MAY CAUSE  
HEPATIC (LIVER) SYSTEM EFFECTS. SIGNS AND SYMPTOMS MAY  
INCLUDE ELEVATION OF LIVER ENZYME LEVELS AND JAUNDICE  
(YELLOWING OF THE SKIN AND EYES). MAY CAUSE  
RESPIRATORY EFFECTS SUCH AS DIFFICULTY IN BREATHING,  
COUGHING, WHEEZING, IRRITATION (INFLAMMATION) AND  
RESPIRATORY ARREST.

SKIN : MAY CAUSE SKIN IRRITATION.  
EYE : MAY CAUSE EYE IRRITATION.

CHRONIC EFFECTS

GENERAL .....: MAY CAUSE LACK OF MUSCLE COORDINATION.

CARCINOGENICITY .....: NOT LISTED BY NTP, IARC, OR OSHA.

REPRODUCTIVE

TOXICITY .....: CHLORDIAZEPOXIDE HYDROCHLORIDE  
AN INCREASED RISK OF CONGENITAL MALFORMATIONS  
ASSOCIATED WITH THE USE OF MINOR TRANQUILIZERS, SUCH AS  
DIAZEPAM AND CHLORDIAZEPOXIDE, DURING THE FIRST  
TRIMESTER OF PREGNANCY HAS BEEN SUGGESTED. SINCE THIS  
MATERIAL MAY AFFECT THE DEVELOPING FETUS, FEMALES  
PLANNING TO HAVE A CHILD AND PREGNANT WOMEN SHOULD  
EXERCISE CAUTION REGARDING EXPOSURE. IT IS ALSO  
ADVISABLE FOR NURSING MOTHERS TO EXERCISE CAUTION  
REGARDING EXPOSURE.

CONDITIONS

AGGRAVATED .....: HYPERSENSITIVITY TO THIS MATERIAL. LIVER CONDITIONS  
AND/OR IMPAIRED LIVER FUNCTION. RESPIRATORY SYSTEM  
CONDITIONS.

ADDITIONAL HEALTH

HAZARD INFORMATION ..: THIS MATERIAL MAY CAUSE IMPAIRMENT OF MENTAL AND/OR  
PHYSICAL ABILITIES WHICH ARE REQUIRED TO PERFORM  
HAZARDOUS TASKS, SUCH AS OPERATING MACHINERY OR DRIVING  
A MOTOR VEHICLE.

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SECTION 4. FIRST AID MEASURES

INHALATION .....: REMOVE TO FRESH AIR. IF DISCOMFORT OCCURS OR PERSISTS,  
GET MEDICAL ATTENTION.  
SKIN CONTACT .....: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH SKIN WITH  
SOAP AND PLENTY OF WATER. IF IRRITATION OCCURS OR  
PERSISTS, GET MEDICAL ATTENTION. WASH CLOTHING AND  
SHOES BEFORE REUSE.  
EYE CONTACT .....: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. IF  
IRRITATION OCCURS OR PERSISTS, GET MEDICAL ATTENTION.

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SECTION 4. FIRST AID MEASURES (CONTINUED. . .)

INGESTION .....: IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, GET  
MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING  
UNLESS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE  
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT .....: NOT APPLICABLE  
EXTINGUISHING MEDIA : WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.  
UNUSUAL FIRE AND  
EXPLOSION HAZARDS ..: POSSIBLE DUST EXPLOSION HAZARD BASED ON INFORMATION ON  
RELATED MATERIALS. VIOLENT DECOMPOSITION MAY OCCUR  
WHEN HEATED OR IN A FIRE BASED ON INFORMATION ON  
RELATED MATERIALS. TOXIC EMISSIONS MAY BE GIVEN OFF IN  
A FIRE.  
FIRE FIGHTING  
INSTRUCTIONS .....: WEAR NIOSH/MSHA APPROVED POSITIVE PRESSURE, SELF  
CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE TURN  
OUT GEAR. USE CAUTION IN APPROACHING FIRE. USE WATER  
TO KEEP FIRE EXPOSED CONTAINERS COOL.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP  
PROCEDURES .....: USE PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING  
SPECIFIED IN SECTION 8-EXPOSURE CONTROLS/PERSONAL  
PROTECTION. SHUT OFF THE SOURCE OF THE SPILL OR LEAK  
IF IT IS SAFE TO DO SO. SHUT OFF ALL ELECTRICAL  
EQUIPMENT IF IT IS SAFE TO DO SO. ELIMINATE POSSIBLE  
IGNITION SOURCES. FOLLOW APPROPRIATE GROUNDING  
PROCEDURES. SCOOP OR SHOVEL SPOILED MATERIAL INTO A

SUITABLE LABELED OPEN HEAD DRUM. SECURE THE DRUM COVER AND MOVE THE CONTAINER TO A SAFE HOLDING AREA. CLEAN SPILL AREA THOROUGHLY.

TREATMENT AND

DISPOSAL .....: DECONTAMINATE EQUIPMENT. DISPOSE OF PROTECTIVE CLOTHING WITH THE SPILLED MATERIAL. DISPOSE OF IN ACCORDANCE WITH RECOMMENDATIONS IN SECTION 13 DISPOSAL CONSIDERATIONS.

REPORTING

REQUIREMENTS .....: THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) HAS NOT ESTABLISHED A REPORTABLE QUANTITY (RQ) FOR RELEASES OF THIS MATERIAL. IN NEW JERSEY, REPORT ALL RELEASES WHICH ARE LIKELY TO ENDANGER THE PUBLIC HEALTH, HARM THE ENVIRONMENT OR CAUSE A COMPLAINT TO THE NJDEPE HOTLINE (1-609-292-5560) AND TO LOCAL OFFICIALS. STATE AND LOCAL REGULATIONS VARY AND MAY IMPOSE ADDITIONAL REPORTING REQUIREMENTS.

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SECTION 7. HANDLING AND STORAGE

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HANDLING & STORAGE

PRECAUTIONS .....: DO NOT GENERATE DUST OR EXPOSE TO IGNITION SOURCES. GROUND AND BOND ALL TRANSFER EQUIPMENT. MILLING/MIXING/DRYING SHOULD BE PERFORMED IN DEVICES EQUIPPED WITH EXPLOSION RELIEF OR SUPPRESSION SYSTEMS OR UNDER INERT CONDITIONS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION. WHEN HANDLING, USE PROPER PERSONAL PROTECTIVE EQUIPMENT SPECIFIED IN SECTION 8. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE IN A DRY AREA AT ROOM TEMPERATURE.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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ENGINEERING CONTROLS

VENTILATION .....: LOCAL VENTILATION IS REQUIRED WHEN USING THIS MATERIAL.

PERSONAL PROTECTION

RESPIRATOR TYPE(S) ..: NEGATIVE PRESSURE AIR PURIFYING, HALF FACE, TOXIC DUST/MIST/FUME HIGH EFFICIENCY FILTER.

CONDITIONS FOR USE ..: RESPIRATORY PROTECTION IS RECOMMENDED FOR DUSTY OPERATIONS. OSHA CONSIDERS EFFECTIVE ENGINEERING CONTROLS TO BE THE PRIMARY MEANS TO CONTROL WORKER EXPOSURE. RESPIRATORY PROTECTION SHOULD NOT SUBSTITUTE FOR FEASIBLE ENGINEERING CONTROLS. WHENEVER RESPIRATORY PROTECTION IS USED, A COMPLETE RESPIRATOR PROGRAM SHOULD BE DEVELOPED IN ACCORDANCE WITH OSHA SUBPART I (29CFR1910.134) REQUIREMENTS.

GLOVE MATERIALS ....: ANY PLASTIC OR RUBBER GLOVE.

CONDITIONS FOR USE ..: GLOVES ARE REQUIRED IF THERE IS A POTENTIAL FOR SKIN CONTACT.

SKIN PROTECTION ....: USE PROTECTIVE CLOTHING (LAB COATS, DISPOSABLE COVERALLS, ETC.) IN BOTH PRODUCTION AND LABORATORY AREAS. CONSULT THE PROTECTIVE CLOTHING MANUFACTURER, SUPPLIER AND/OR INDUSTRIAL HYGIENIST.

EYE PROTECTION .....: SAFETY GLASSES REQUIRED, SAFETY GOGGLES RECOMMENDED.

OTHER CONTROL MEASURES

ADMINISTRATIVE

CONTROLS .....: POST THE WORK AREA AND LIMIT ACCESS TO AUTHORIZED PERSONNEL ONLY.

ADDITIONAL

PROTECTIVE MEASURES : WORK CLOTHING SHOULD BE REMOVED IN A CHANGEROOM ON SITE AND LAUNDERED PROFESSIONALLY. EMPLOYEES SHOULD SHOWER AND CHANGE INTO STREET CLOTHES BEFORE LEAVING THE FACILITY. PROVIDE SAFETY SHOWERS AND EYEWASH STATIONS IN THE WORK AREA. PREVENT THE ACCUMULATION OF DUST IN THE WORK AREA BY THOROUGH PERIODIC CLEANING OF THE AREA.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED. . .)

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EXPOSURE LIMITS

STARCH

ACGIH TLV: 10.0 MG/M3 TIME WEIGHTED AVERAGE.  
OSHA PEL: 5.00 MG/M3 TIME WEIGHTED AVERAGE, RESPIRABLE FRACTION.  
OSHA PEL: 15.0 MG/M3 TIME WEIGHTED AVERAGE, TOTAL DUST.  
NIOSH REL: 5.00 MG/M3 TIME WEIGHTED AVERAGE, RESPIRABLE FRACTION.  
NIOSH REL: 10.0 MG/M3 TIME WEIGHTED AVERAGE, TOTAL DUST.

TALC

ACGIH TLV: 2.00 MG/M3 TIME WEIGHTED AVERAGE, RESPIRABLE FRACTION.  
OSHA PEL: 2.00 MG/M3 TIME WEIGHTED AVERAGE, RESPIRABLE FRACTION.  
NIOSH REL: 2.00 MG/M3 TIME WEIGHTED AVERAGE, RESPIRABLE FRACTION.

CHLORDIAZEPOXIDE HYDROCHLORIDE

ROCHE IOEL: 0.0500 MG/M3 TIME WEIGHTED AVERAGE.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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PHYSICAL STATE ..... POWDER.  
PURE/MIXTURE ..... MIXTURE.

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SECTION 10. STABILITY AND REACTIVITY

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STABILITY ..... NORMALLY STABLE BUT MAY BECOME UNSTABLE AT ELEVATED  
TEMPERATURES OR REACTS WITH WATER, RELEASING SOME  
ENERGY BUT NOT VIOLENTLY.  
CONDITIONS TO AVOID : ELEVATED TEMPERATURES  
DUST ACCUMULATION  
AIRBORNE DUST  
SOURCES OF IGNITION  
POLYMERIZATION ..... NO  
CONDITIONS OF  
POLYMERIZATION ..... WILL NOT OCCUR.

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SECTION 11. TOXICOLOGICAL INFORMATION

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CHLORDIAZEPOXIDE HYDROCHLORIDE

ACUTE ORAL, SINGLE DOSE, RAT: 1030 MG/KG  
SUMMARY: ACUTE ORAL LD50 (RAT) IS 1030 MG/KG BODY WEIGHT AT 24 HOURS  
CLASSIFIES THIS MATERIAL AS MODERATELY TOXIC ORALLY UNDER THE STUDY  
CONDITIONS UTILIZED.

CARCINOGENICITY ORAL, 2 YEAR, RAT

SUMMARY: NO EVIDENCE OF CARCINOGENICITY WAS OBSERVED IN RATS WHEN  
ADMINISTERED AS A DIETARY ADMIX AT DOSES UP TO 100 MG/KG/DAY IN A TWO  
YEAR FEEDING STUDY, UNDER THE STUDY CONDITIONS UTILIZED.

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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED. . .)

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REPRODUCTIVE ORAL, RAT

SUMMARY: NO ADVERSE EFFECTS WERE OBSERVED IN RATS FED 10, 20, AND 80  
MG/KG DAILY; HOWEVER, IN ANOTHER STUDY AT 100 MG/KG DAILY, THERE WAS  
SIGNIFICANT DECREASE IN THE FERTILIZATION RATE AND MARKED DECREASE IN THE  
VIABILITY AND BODY WEIGHT OF OFFSPRING WHICH MAY BE ATTRIBUTABLE TO  
SEDATIVE ACTIVITY (RESULTING IN LACK OF INTEREST IN MATING AND LESSENED  
MATERNAL NURSING AND CARE OF THE YOUNG).

TERATOGENICITY ORAL, RAT

SUMMARY: NO EVIDENCE OF TERATOGENICITY WAS OBSERVED IN RATS AT DOSES UP  
TO 100 MG/KG/DAY ADMINISTERED AS A DIETARY ADMIX DURING GESTATION, UNDER

THE STUDY CONDITIONS UTILIZED.

TERATOGENICITY ORAL, RABBIT

SUMMARY: NO EVIDENCE OF TERATOGENICITY WAS OBSERVED IN RABBITS AT DOSES UP TO 20 MG/KG/DAY ADMINISTERED ORALLY DURING GESTATION, UNDER THE STUDY CONDITIONS UTILIZED.

MUTAGENICITY

SUMMARY: NO EVIDENCE OF MUTAGENICITY WAS OBSERVED IN THE HOST-MEDIATED ASSAY, THE MOUSE MICRONUCLEUS ASSAY, AND IN THE AMES ASSAY WITH OR WITHOUT METABOLIC ACTIVATION, UNDER THE STUDY CONDITIONS UTILIZED.

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SECTION 12. ECOLOGICAL INFORMATION

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CHLORDIAZEPOXIDE HYDROCHLORIDE

NO OBSERVABLE EFFECT LEVEL, TROUT: 50.0 MG/L

SUMMARY: THIS MATERIAL IS CLASSIFIED AS MODERATELY TOXIC FOR FISH (RAINBOW TROUT); NEC = 50 MG/L, UNDER THE STUDY CONDITIONS UTILIZED.

AEROBIC BIODEGRADATION (H2O)

SUMMARY: THIS MATERIAL IS NOT BIODEGRADABLE (ZAHN-WELLENS-TEST) UNDER THE STUDY CONDITIONS UTILIZED.

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SECTION 13. DISPOSAL CONSIDERATIONS

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DISPOSAL

RECOMMENDATIONS ..... DISPOSE OF IN A MANNER APPROVED FOR U.S. DRUG ENFORCEMENT AGENCY SCHEDULE IV CONTROLLED SUBSTANCES. THIS MATERIAL IS SUITABLE FOR INCINERATION. THESE RECOMMENDATIONS ARE BASED ON THE PRODUCT AS SHIPPED. USE, PROCESSING, ALTERATION OR CONTAMINATION MAY AFFECT THESE DISPOSAL RECOMMENDATIONS. STATE, LOCAL OR SITE RESTRICTIONS AFFECTING THE AVAILABLE PROPER DISPOSAL OPTIONS MAY VARY.

RCRA WASTE # ..... NOT REGULATED UNDER RCRA

EMPTY CONTAINERS .... EMPTY CONTAINERS MUST BE TRIPLE RINSED PRIOR TO DISPOSAL, RECYCLING, OR REUSE.

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SECTION 14. TRANSPORTATION INFORMATION

ENFORCEMENT AGENCY .. US DEPT. OF TRANSPORTATION  
COUNTRY/COMMUNITY .. USA  
PROPER SHIP. NAME .. NON-REGULATED

ENFORCEMENT AGENCY .. INTERNATIONAL AIR TRANSPORT ASSOCIATION  
COUNTRY/COMMUNITY .. INTERNATIONAL  
PROPER SHIP. NAME .. NON-REGULATED

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SECTION 15. REGULATORY INFORMATION

LAW/REGULATION ..... HAZARDOUS CHEMICAL REPORTING: COMMUNITY RIGHT-TO-KNOW 40CFR370  
COMMON NAME ..... SARA TITLE III SECTION 312 - HAZARDOUS CHEMICAL INVENTORY  
ENFORCEMENT AGENCY .. ENVIRONMENTAL PROTECTION AGENCY (EPA)  
GOVERNING AUTHORITY : USA  
CRITERIA MET ..... ACUTE

LAW/REGULATION ..... SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 PROPOSITION 65  
COMMON NAME ..... PROP 65  
ENFORCEMENT AGENCY .. CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
GOVERNING AUTHORITY : CALIFORNIA, USA  
CRITERIA MET ..... FORMULATION CONTAINS CHLORDIAZEPOXIDE HYDROCHLORIDE WHICH IS KNOWN TO THE STATE TO CAUSE REPRODUCTIVE TOXICITY.

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SECTION 16. OTHER INFORMATION

ADDITIONAL

INFORMATION .....: NFPA RATING: THESE RATINGS ARE BASED ON NFPA CODE 704  
AND ARE INTENDED FOR USE BY EMERGENCY PERSONNEL TO  
DETERMINE THE IMMEDIATE HAZARDS OF A MATERIAL.

....HEALTH	1
....FIRE	0
....REACTIVITY	0

APPROVAL INFORMATION

PREPARER .....: HESHAM M. SOLIMAN  
APPROVER .....: CORPORATE ENVIRONMENTAL & SAFETY AFFAIRS  
APPROVAL DATE .....: 02/28/96  
REASON FOR ISSUE ...: NEW

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