

CAIG LABORATORIES INC -- R5MS POWER BOOSTER MINI SPRAY (R5MS-15) -- 6850-01-465-5728

=====  
Product Identification  
=====

Product ID:R5MS POWER BOOSTER MINI SPRAY (R5MS-15)

MSDS Date:07/26/1999

FSC:6850

NIIN:01-465-5728

Status Code:A

MSDS Number: CKFTR

=== Responsible Party ===

Company Name:CAIG LABORATORIES INC

Address:12200 THATCHER CT

City:POWAY

State:CA

ZIP:92064

Country:US

Info Phone Num:858-4

86-8388

Emergency Phone Num:800-441-3637/7515 DUPONT

Resp. Party Other MSDS Num.:#R5MS

Preparer's Name:MARK K. LOHKEMPER

Chemtec Ind/Phone:(800)424-9300

CAGE:55403

=== Contractor Identification ===

Company Name:CAIG LABORATORIES INC

Address:12200 THATCHER CT

Box:City:POWAY

State:CA

ZIP:92064

Country:US

Phone:858-486-8388

Contract Num:SP0450-00-M-D915

CAGE:55403

=====  
Composition/Information on Ingredients  
=====

Ingred Name:R5100L

= Wt:5.

Ingred Name:1,1,1,2,3,4,4,5,5,5-DECA

FLUOROPENTANE

CAS:138495-42-8

Minumum % Wt:45.

Maxumum % Wt:50.

Ingred Name:TRANS-1,2-DICHLOROETHYLENE

CAS:156-60-5

RTECS #:KV9400000

Minumum % Wt:25.

Maxumum % Wt:40.

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:CYCLOPENTANE

CAS:287-92-3

RTECS #:GY2390000

Minumum % Wt:2.

Maxumum % Wt:5.

ACGIH TLV:1720 MG/M3;600 PPM

Ingred Name:METHANOL

CAS:67-56-1

RTECS #:PC1400000

Minumum % Wt:3.

Maxumum % Wt:6.

OSHA PEL:260 MG/M3;200 PPM

ACGIH TLV:262 MG/M3;200 PPM

ACGIH STEL:328 MG/M3;250 PPM

EPA

Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:NITROMETHANE

CAS:75-52-5

RTECS #:PA9800000

Minumum % Wt:.1

Maxumum % Wt:.5

OSHA PEL:250 MG/M3;100 PPM

ACGIH TLV:50 MG/M3;20 PPM

Ingred Name:1,1,1,2-TETRAFLUOROETHANE (DYMEL 134A)

CAS:811-97-2

Minumum % Wt:10.

Maxumum % Wt:20.

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO I

ARC:NO OSHA:NO

Health Hazards Acute and Chronic:SKIN CONTACT: REPEATED OR PROLONGED CONTACT MAY CAUSE DRYNESS OF SKIN. EYE CONTACT: CONTACT WITH LIQUIDS, MISTS OR VAPORS OF THIS PRODUCT CAN CAUSE ACUTE EYE IRRITATION. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF MOUTH, NOSE AND THROAT. ASPIRATION OF VOMIT INTO LUNGS MAY CAUSE CHRONIC PULMONARY EDEMA CHEMICAL PNEUMONIA. INHALATION: HARMFUL IF PRODUCT VAPORS INHALED IN HIGH CONCENTRATIONS. MAY CAUSE IRRITATION

OF LUNGS WITH CHRONIC PULMONARY EDEMA. ACUTE IRRITATION OF MOUTH AND NASAL PASSAGES MAY RESULT FROM OVEREXPOSURE. DISPLACEMENT OF OXYGEN BY VAPORS MAY LEAD TO DROWSINESS OR UNCONSCIOUSNESS.

Explanation of Carcinogenicity:NONE OF THE COMPONENTS OF THIS PRODUCT ARE KNOWN TO HAVE CARCINOGENIC, MUTAGENIC, TERATOGENIC, SENSITIZATION EFFECTS.

Effects of Overexposure:SKIN: DRY SKIN. EYES: IRRITATION, STINGING, SWELLING. INGESTION: IRRITATION OF LININGS OF MOUTH, NOSE, THROAT.

INHALATION: IRRITATION OF LUNGS, MOUTH AND NASAL PASSAGES, DROWSINESS, UNCONSCIOUSNESS.

Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY RESPONSIBLE PARTY.

=====  
===== First Aid Measures =====

First Aid:SKIN CONTACT: WASH WITH SOAP & WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. EYE CONTACT: IMMEDIATELY FLUSH WITH PLENTY OF WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. INGESTION: SEEK MEDICAL ATTENTION IMMEDIATELY. INDUCE VOMITING ONLY AS DIRECTED BY MEDICAL PERSONNEL. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK MEDICAL ATTENTION.

=====  
===== Fire Fighting Measures =====

Flash Point Method:PMCC

Flash Point:NONE

Lower Limits:4%

Upper Limits:14%

Extinguishing Media:ALCOHOL FOAM, WATER FOG, DRY

CHEMICAL, CARBON

DIOXIDE (CO<sub>2</sub>). NOT TO BE USED: WATER.

Fire Fighting Procedures:AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:SPECIAL EXPOSURE HAZARDS: CARBON DIOXIDE, CARBON MONOXIDE, HYDROCARBONS.

===== Accidental Release Measures =====

Spill Release Procedures:OBSERVE RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT. FOR LARGE SPILLS, ABSORB WITH INERT MATERIAL SUCH AS SAND, CL

AY OR DIRT AND PLACE IN SEALED METAL CONTAINER FOR DISPOSAL. ABSORB WITH INERT M ATERIAL AND DISCARD AS YOU WOULD MINERAL OIL. AVOID RUNOFF INTO SEWERS AND DITCHES THAT LEAD TO WATERWAYS.

Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Handling and Storage =====

Handling and Storage Precautions:DO NOT EXPOSE TO TEMPERATURES ABOVE 120F. USE IN WELL-VENTILATED AREAS. USE AND STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM H

EAT, HOT SURFACES AND SOURCES OF IGNITION. PROTECT CONTAINERS FROM PHY SICAL DAMAGE. INDOOR STORAGE SHOULD MEET OSHA STANDARDS AND APPROPRIATE CODES.

Other Precautions:AVOID PROLONGED OR REPEATED CONTACT WITH SKIN, EYES OR CLOTHING. AVOID BREATHING PRODUCT VAPOR FOR EXTENDED PERIODS OF TIME. USE ONLY WITH ADEQUATE VENTILATION. GENERAL VENTILATION SHOULD BE ADEQUATE, BUT USE LOCAL EXHAUST IN CONFINED SPACES OR POINTS OF EXCESSIVE DISCHARGE. AVOID SPLASHING OR CREAT ING MIS TS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:FULL-FACE RESPIRATOR MASK EQUIPPED WITH ACID GAS/ORGANIC VAPOR CARTRIDGE OR FUME HOOD OR OTHER TYPE OF LOCAL EXHAUST VENTILATION.

Ventilation:GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE VAPOR LEVELS. LOCAL EXHAUST VENTILATION SHOULD BE USED IF LARGE AMOUNTS ARE RELEASED.

Protective Gloves:WEAR CHEMICALLY RESISTANT RUBBER GLOVES WITH REPEATED EXPOSURE.

Eye Protecti

on:WEAR SAFETY GLASSES, SPLASH GOGGLES OR A FULL-FACE SHIELD.

Other Protective Equipment:NONE REQUIRED FOR NORMAL CONDITIONS OF INDUSTRIAL USE.

Work Hygienic Practices:WASH HANDS BEFORE EATING OR SMOKING WHEN USING THIS PRODUCT.

Supplemental Safety and Health

NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Physical/Chemical Properties =====

HCC:V2

Boiling Pt:=38.C, 100.4F

Vapor Pres:486MMHG@25C

Vapor Density:1.33G/CM3

Volatile Org Content %:3

Appearance and

Odor:NON-FLAMMABLE LIQUID, LIGHT RED

===== Stability and Reactivity Data =====

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:DO NOT SPRAY AROUND OPEN FLAMES, SPARKS, OR HOT METAL SURFACES.

Hazardous Decomposition Products:OXIDES OF CARBON AND UNBURNED HYDROCARBONS

===== Toxicological Information =====

Toxicological Information:NONE OF THE COMPONENTS OF THIS PRODUCT ARE KNOWN TO HAVE CARCINOGENIC, MUTAGENIC, TERATOGENI

C, SENSITIZATION

EFFECTS. BREATHING HIGH VAPOR CONCENTRATIONS FOR LONG PERIODS OF TIME MAY LEAD TO NARCOSIS.

===== Ecological Information =====

Ecological:MOBILITY: NO PRODUCT SPECIFIC DATA AVAILABLE. PERSISTENCE AND DEGRADABILITY: NO PRODUCT SPECIFIC DATA AVAILABLE. BIOACCUMULATIVE POTENTIAL: NO PRODUCT SPECIFIC DATA AVAILABLE. AQUATIC TOXICITY: NO PRODUCT SPECIFIC DATA AVAILABLE. OTHER DATA PERTAINING TO TOXICITY: IN LARGE QUANTITIES, WA

TER RUNOFF MAY CAUSE ENVIRONMENTAL DATA.

OTHER ENVIRONMENTAL DATA: ENVIRONMENTAL IMPACT DATA: CFC=0%;  
VOC=3%; HCFC=0 %; HFC=0; CLSOLV=0%; ODP=0%.

===== Disposal Considerations =====

Waste Disposal Methods:PRODUCT WASTE IS SUITABLE FOR FUELS BLENDING FOR ENERGY RECOVERY OR DISPOSAL BY INCINERATION. PRODUCT MAY BE RECOVERABLE BY DISTILLATION OR RECYCLING. LANDFILLING IS NOT RECOMMENDED FOR DISPOSAL. PACKAGE, TRANSPORT AND DISPOSE OF IN ACCORDANCE WITH LOCAL OR NATIONAL REGULATIONS THAT APPLY TO SUBSTANCES & PREPARATIONS OF THIS NATURE.

===== MSDS Transport Information =====

Transport Information:US DOT SHIPPING NAME: CONSUMER PRODUCT. CLASS: ORM-D. UN NUMBER: NOT REQUIRED. IATA: CONSUMER COMMODITY. UN NUMBER: N/A. CLASS OR DIVISION: N/A. LABEL: N/A. SUBSIDIARY RISK: NONE. PACKING INSTRUCTIONS : N/A. IMDG: SHIPPING NAME: NON-FLAMMABLE AEROSOL. CLASS: N/A. UN NUMBER: N/A. IMDG CODE: N/A. LABEL NOT REQUIRED. MARINE POLLUTANT: NO. EMS: CHEMTREC-USA. MFAG NO.: #R5MS.

===== Regulatory Information =====

SARA Title III Information:DISCLOSURE OF METHANOL AS A TOXIC CHEMICAL IS REQUIRED UNDER SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.CONTACT DUPONT FOR ADDITIONAL INFORMATION FOR VENTREL XMS (INCLUDES INGREDIENTS 2-6).

Federal Regulatory Information:OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): METHANOL. TSCA INVENTORY: ALL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.

State Regulatory Information:CALIFORNIA PROPOSITION 65: THE CALIFORNIA LIST OF CHEMICALS "KNOWN TO CAUSE CANCER OR REPRODUCTIVE TOXICITY" IS SO EXTENSIVE IT REQUIRES MORE CLARIFICATION, RESEARCH AND EVALUATION. MEANWHILE, ALL CHEMICALS DISTRIBUTED BY OR MANUFACTURED BY CAIG LABORATORIES, SHALL BE ASSUMED TO BE ON THE LIST OR CONTAIN DETECTABLE AMOUNTS OF

CHEMICAL LISTED.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.