DOW CORNING CORPORATION -- DOW CORNING(R) 321 DRY FILM LUBRICANT -- 9150-01-414-4545

Product ID:DOW CORNING(R) 321 DRY FILM LUBRICANT MSDS Date:12/19/1995 FSC:9150 NIIN:01-414-4545 MSDS Number: CJKHV === Responsible Party === Company Name: DOW CORNING CORPORATION Address:SOUTH SAGINAW ROAD City:MIDLAND State:MI ZIP:48686 Country:US Info Phone Num:517-496-6000 Eme rgency Phone Num:517-496-5900 Resp. Party Other MSDS Num.:02412941 Preparer's Name: DOW CORNING CORP Chemtrec Ind/Phone:(800)424-9300 CAGE:71984 === Contractor Identification === Company Name: DOW CORNING CORP Address:2200 W SALZBURG RD Box:City:AUBURN State:MI ZIP:48611 Country:US Phone:517-496-4388 CAGE:71984 Company Name: MCKEOWN ROBERT CO. INC. Address:111 CHAMBERS BROOK RD. Box:City:SOMERVILLE State:NJ ZIP:08876 Country:US Phone:908-218-9000 Contract Num:SP0450-00-M-C059 CAGE:7B953 **Company Nam**

e:MCKEOWN ROBERT CO. INC. Address:111 CHAMBERS BROOK RD. Box:City:SOMERVILLE State:NJ ZIP:08876 Country:US Phone:908-218-9000 Contract Num:SP0450-99-M-B216 CAGE:7B953

Ingred Name:MOLYBDENUM DISULFIDE CAS:1317-33-5 RTECS #:QA4697000 = Wt:18. Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST

Ingred Name:GRAPHITE CAS:7782-42-5 RTECS #:MD9659600 = Wt:5. Other REC Limits:NONE RECOMMENDED OSHA PEL: see Table Z-3 ACGIH TLV:2 MG/M3

Ingred Name:STODDARD SOLVENT CAS:8052-41-3 RTECS #:WJ8925000 = Wt:65. Other REC Limits:NONE RECOMMENDED OSHA PEL:2900 MG/M3;500 PPM ACGIH TLV:525 MG/M3;100 PPM

Ingred Name:POLYBUTYL TITANATE CAS:9022-96-2 Code:F = Wt:10. Other REC Limits:NONE RECOMMENDED

Ingred Name:5-NITRO-1,3-BENZENE-DICARBOXYLIC ACID, ZINC SALT CAS:60580-61-2 = Wt:1. Other REC Limits:NONE RECOMMENDED

Routes of Entry: Inh

alation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: LUNG, LIVER. ACUTE EFFECTS - EYE: DIRECT CONTACT IRRITATES MODERATELY WITH REDNESS AND SWELLING. SKIN: REPEATED OR PROLONGED CONTACT MAY CAUSE DEFATTING OF THE SKIN LEADING TO DERMATITI S. INHALATION: SHORT VAPOR EXPOSURE MAYCAUSE DROWSINESS, IRRITATE NOSE AND THROAT AND CAUSE INJURY TO THE FOLLOWING ORGANS: LUNGS, LIVER. ORAL: INHALING LIQUI

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WHILE VOMITING CAN INJURE LUNGS SERIOUSL Y. SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE, ETC., SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY INJURE SLIGHTLY. REPEATED EXPOSURE EFFECTS - MAY CAUSE DROWSINESS, LUNGS AND LIVE R INJURY. Explanation of Carcinogenicity:NONE KNOWN.

Effects of Overexposure:EYE:REDNESS AND SWELLING. SKIN:DEFATTING OF THE SKIN LEADING TO DERMATITIS. INHALATION: DROWSINESS, IRRITATION OF NOSE AND THROAT. ORAL: VOMITING.

- First Aid:EYE: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: REMOVE FROM SKIN AND WASH THOROUGHLY WITH SOAP AND WATER OR WATERLESS CLEANSER. GET MEDICAL ATTENTION IF IRRITATION OR OT HER ILL EFFECTS DEVELOP OR PERSISTS. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF ILL EFFECTS PERSISTS. ORAL: GET IMMEDIATE MEDICAL ATTENTION. ONLY INDUCE VOMITING AT THE INSTRUCTIONS OF
- A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. COMENTS: TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFIC OF EXPOSURE.

Flash Point Method:CC Flash Point:=42.C, 107.5F Autoignition Temp:Autoignition Temp Text:N/D Lower Limits:N/D Upper Limits:N/D Extinguishing Media:CARBON DIOXIDE(C02). WATER SPRAY. DRY CHEMICAL,FOAM. WATER CAN BE USED TO COOL FIRE EXPOSED CONTAINERS. Fire Fighting Procedures :SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS. USE WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL. DETERMINE THE NEED TO EVACUATE OR ISOLATE THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN.

Unusual Fire/Explosion Hazard: VAPORS ARE HEAVIER THAN AIR AND CAN TRAVEL ALONG GROUND TO REMOTE IGNITION SOURCES. STATIC ELECTRICITY MAY ACCUMULATE AND IGNITE VAPORS. PREVENT A POSSIBLE FIRE HAZARD BY SUITABLE ME

ANS, SUCH AS, BOND ING AND GROUNDING, INERT GAS PURGE, VAPOR DILUTION, AND THE LIKE.

Spill Release Procedures:REMOVE IGNITION SOURCES. USE NONSPARKING TOOLS. MOP UP OR WIPE UP OR SOAK UP WITH ABSORBENT AND CONTAIN FOR SALVAGE OR DISPOSAL. DIKE LARGE SPILLS. CLEAN ANY REMAINING SLIPPERY SURFACES BY SEVERAL MOP PINGS/SWABBINGS WITH APPROPRAIATE SOLVENTS; WASHING WITH MILD CAUSTIC DETERGENTS OR HIGH PRESSURE

STEAM FOR LARGE AREAS. OBSERVE ANY APPLICABLE SAFETY PRECAUTIONS. REPORTING REQUIREMENTS MAY APPLY.

Handling and Storage Precautions: KEEP CONTAINER CLOSED AND AWAY FROM HEAT, SPARKS AND OPEN FLAMES. NO SPECIAL HANDLING PRECAUTIONS.

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

Respiratory Protection: USE RESPIRATORY PROTECTION UNLESS ADEQUATE LOCAL EXHAUST VENTILATION IS PROVIDED OR AIR SA

MPLING DATA SHOW EXPOSURES

ARE WITHIN RECOMMENDED EXPOSURE GUIDELINES. INDUSTRIAL HYGIENE PERSONNEL CAN ASSIST IN JUDGING THE ADEQUACY OF EXISTING ENGINEERING CONTROLS. SUITABLE RESPIRATOR: ORGANIC VAPOR TYPE. Ventilation:LOCAL EXHAUST RECOMMENDED. GENERAL VENTILATION RECOMMENDED Protective Gloves:WASH AT MEALTIMES AND END OF SHIFT. SILVER SHIELD(R). 4H(R) RECOMMENDED

Eye Protection: USE PROPER PROTECTION - SAFETY GLASSES AS A MINIMUM. Work Hygienic Practices: CONTAMINATED CLOTHIN

G AND SHOES SHOULD BE REMOVED AS SOON AS PRACTICAL AND THOROUGHLY CLEANED BEFORE REUSE. CHEMICAL PROTECTIVE GLOVES ARE RECOMMENDED.WASHING AT MEALTIME AND END OF SHIFT ARE ADEQUATE. Supplemental Safety and Health AVOID EYE CONTACT, AVOID SKIN CONTACT. AVOID BREATHING VAPOR, KEEP CONTAINER CLOSED. DO NOT TAKE INTERNALLY. NOTE: THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED TEMPERATURE, OR AEROSOL/SPRAY APPLICATIONS, MAY REQUIRE ADDED PRECAUTIONS.
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HCC:F4 Boiling Pt:B.P. Text:N/D Vapor Pres:N/D Vapor Density:N/D Spec Gravity:0.97 Viscosity:50.00CST Appearance and Odor:LIQUID, CHARCOAL GRAY, SOLVENT ODOR.
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 Stability Indicator/Materials to Avoid:YES OXIDIZING MATERIAL CAN CAUSE A REACTION. Stability Condition to Avoid:NONE Hazardous Decomposition Products:THERMAL BREAKDOWN OF PRODUCT DURING FIRE OR VER Y HIGH HEAT CONDITIONS MAY EVOLVE NITROGEN OXIDES. METAL OXIDES. SULFUR OXIDES. CARBON OXIDES,TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS, FORMALDEHYDE. Conditions to Avoid Polymerization:WILL NOT OCCUR
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Toxicological Information: COMPLETE INFORMATION NOT YET AVAILABLE.
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Ecological:COMPLETE INFORMATION NOT YET AVAILABLE.

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Waste Disposal Methods:FEDERAL HAZARDOUS WASTE CODE: D001 (IGNITABLE). STATE OR LOCAL LAWS MAY IMPOSE ADDITIONAL REGULATORY REQUIREMENTS REGARDING DISPOSAL. CALL DOW CORNING ENVIRONMENTAL MANAGEMENT, (517) 496-6315, IF ADDI TIONAL INFORMATION IS REQUIRED.

SARA Title III Information:SECTION 312 HAZARD CLASS: ACUTE, CHRONIC, FIRE. SECTION 313 TOXIC CHEMICALS: ZINC COMPOUN DS

Federal Regulatory Information:TSCA STATUS: ALL CHEMICAL SUBSTANCES FOUND IN THIS PRODUCT COMPLY WITH THE TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY REPORTING REQUIREMENTS

State Regulatory Information: CALIFORNIA SAFE DRINKING WATER : NONE KNOWN. MASSACHUSETTS, NEW JERSEY, PENNSYLVANIA: STODDARD SOLVENT, GRAPHITE, MOLYBDENUM DISULFIDE. NJ AND PA: POLYBUTYL TITANATE. NJ: 5-NITRO-1,3-BENZENEDICARBO XYLIC ACID, ZINC SALT

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