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DOW CORNING CORPORATION -- DRY FILM LUBRICANT 321,DC 321-NEW (LIQUID) --
9150-01-414-4545

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

Product ID: DRY FILM LUBRICANT 321,DC 321-NEW (LIQUID)

MSDS Date: 12/19/1995

FSC: 9150

NIIN: 01-414-4545

Status Code: A

MSDS Number: CLCCR

=== Responsible Party ===

Company Name: DOW CORNING CORPORATION

Address: 3901 SOUTH SAGINAW ROAD

Box: 997

City: MIDLAND

State: MI

ZIP: 48686-0997

C

Country: US

Info Phone Num: 517-496-6000/517-496-6315

Emergency Phone Num: 517-496-5900/800-424-9300 (CHEMTREC)

Resp. Party Other MSDS Num.: 02412951

Chemtrec Ind/Phone: (800) 424-9300

CAGE: 5D028

=== Contractor Identification ===

Company Name: DOW CORNING CORP

Address: 3901 S SAGINAW RD

Box: 997

City: MIDLAND

State: MI

ZIP: 48686-0997

Country: US

Phone: 517-496-6000/517-496-6315

CAGE: 5D028

Company Name: DOW CORNING CORP

Address: 2200 W SALZBURG RD

Box: City: AUBURN

State: MI

ZIP: 48611

Country: US

Phone: 517-496-4388

C

AGE: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:SP0450-01-M-LC83
CAGE:7B953
Company Name:SDB CONSULTANTS LTD
Address:401 WHITNEY AVE SUITE 120
Box:City:GRETNA
State:LA
ZIP:70056
Country:US
Phone:504-366-9105
CAGE:0PGK2

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

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

Ingred Name:GRAPHITE
CAS:7782-42-5
RTECS #:MD9659600
= Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2.5 MG/M3 RESPIR
ACGIH TLV:2 MG/M3 RESPIR

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

Ingred Name:POLYBUTYL TITANATE
CAS:9022-96-2
= Wt:10.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NONE ESTABLISHED
ACGIH TLV:NONE ESTABLISHED

Ingred Name:5-NITRO-1,3

-BENZENEDICARBOXYLIC ACID,ZINC SALT

CAS:60580-61-2

= Wt:1.

Other REC Limits:NONE RECOMMENDED

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

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

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

Health Hazards Acute and Chronic:ACUTE: EYE-DIRECT CONTACT IRRITATES SLIGHTLY. SKIN-REPEATED OR PROLONGED CONTACT MAY CAUSE DEFATTING OF THE SKIN LEADING TO DERMATITIS. INHALATION-SHORT VAPOR EXPOSURE MAY IRRITATE

NOSE & THROAT & CAUSE INJURY TO THE FOLLOWING

ORGAN(S): LUNGS, LIVER. ORAL-INHALING LIQUID WHILE VOMITING CAN INJURE SERIOUSLY. SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE ETC., SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY INJURE SLIGHTLY. CHRONIC: SKIN-KNOWN. INHALATION-SAME AS ACUTE. ORAL-SAME AS ACUTE.

Explanation of Carcinogenicity:CARCINOGENS: NONE KNOWN.

Effects of Overexposure:INHALATION: SHORT VAPOR EXPOSURE MAY CAUSE DROWSINESS.

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

First Aid:EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: REMOVE FROM SKIN & WASH THOROUGHLY WITH SOAP & WATER OR WATERLESS CLEANSER. GET MEDICAL ATTENTION IF IRRITATION OR OTHER ILL EFFECTS DEVELOP OR PERSIST. INHALATION: REMOVE TO FRESH AIR. GET IMMEDIATE MEDICAL ATTENTION. ORAL: GET MEDICAL ATTENTION. ONLY INDUCE VOMITING AT THE INSTRUCTIONS OF A PHYSICIAN. NEVER GIVE

ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

COMMENTS: TREAT ACCORDING TO PERSON'S CONDITION & SPECIFICS OF EXPOSURE.

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

Flash Point Method:CC

Flash Point:=42.2C, 108.F

Extinguishing Media: CARBON DIOXIDE (CO2). 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 IN

VOLVING

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 & IGNITE VAPORS. PREVENT A POSSIBLE FIRE HAZARD BY SUITABLE MEANS, SUCH AS, BONDING & GROUNDING, INERT GAS PURGE, VAPOR DILUTION, & THE LIKE.

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

Spill Release Procedures: MOP UP, OR WIPE UP, OR SOAK UP WITH ABSORBANT & CONTAIN FOR SALVAGE OR DISPOSAL. FOR LARGE SPILLS, PROVIDE DIKING OR OTHER APPROPRIATE CONTAINMENT TO KEEP MATERIAL FROM SPREADING. CLEAN ANY REMAINING SLIPPERY SURFACES BY APPROPRIATE TECHNIQUES, SUCH AS: SEVERAL MOPPING OR SWABBINGS WITH APPROPRIATE SOLVENTS; WASHING WITH MILD, CAUSTIC DETERGENTS OR SOLUTIONS; "SEE OTHER"

===== Handling

ling and Storage =====

Handling and Storage Precautions: HANDLING: NO SPECIAL PRECAUTIONS.

STORAGE: KEEP CONTAINER CLOSED & AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.

Other Precautions: CONTAINMENT: DISPOSAL OF COLLECTED PRODUCT, RESIDUES & CLEANUP MATERIALS MAY BE GOVERNMENTALLY REGULATED. OBSERVE ALL APPLICABLE LOCAL, STATE & FEDERAL WASTE MANAGEMENT REGS. REMOVE POSSIBLE IGNITION SOURCES & IF NEEDED, USE NONSPARKING TOOLS & EQUIPMENT.

===== Exposure Controls/Personal Protection

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Respiratory Protection: USE RESPIRATORY PROTECTION UNLESS ADEQUATE LOCAL EXHAUST VENTILATION IS PROVIDED OR AIR SAMPLING 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. MECHANICAL (GENERAL): RECOMMENDED.

Protective Gloves: CHEMICAL P

ROTECTIVE GLOVES ARE RECOMMENDED. SILVER
SHIELD(R). 4H(R).

Eye Protection:USE PROPER PROTECTION - SAFETY GLASSES AS A MINIMUM.

Other Protective Equipment:CHEMICAL PROTECTIVE GLOVES ARE RECOMMENDED.

Work Hygienic Practices:WASH AT MEALTIMES AND END OF SHIFT.

CONTAMINATED CLOTHING AND SHOES SHOULD BE REMOVED AS SOON AS
PRACTICAL AND THOROUGHLY CLEANED BEFORE REUSE.

Supplemental Safety and Health

MSDA NO: 02412951. GENERIC DESCRIPTION: INORGANIC COMPOUND SOLVENT.

PHYSICAL FORM: LIQU

ID. COLOR: CHARCOAL GRAY. ODOR: SOLVENT ODOR.

NFPA PROFILE: HEALTH 2 FLAMMABILITY 42REACTIVITY 0. NOTE: NFPA-NATI
ONAL FIRE PROTECTION ASSOCIATION.

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

HCC:F4

NRC/State Lic Num:NOT RELEVANT

Vapor Density:>1

Spec Gravity:0.97

Viscosity:>50 CST

Appearance and Odor:CHARCOAL GRAY LIQUID - SOLVENT ODOR

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING MAT

ERIALS CAN CAUSE A REACTION.

Stability Condition to Avoid:NONE.

Hazardous Decomposition Products:NITROGEN OXIDES. METAL OXIDES. SULFUR
OXIDES. CARBON OXIDES & TRACES OF INCOMPLETELY BURNED CARBON
COMPOUNDS.

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

Toxicological Information:TERATOGENS: NONE KNOWN. MUTAGENS: NONE KNOWN.
REPRODUCTIVE TOXINS: NONE KNOWN. SENSITIZERS: NONE KNOWN.

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

Ecological

:COMPLETE INFORMATION NOT YET AVAILABLE.

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

Waste Disposal Methods:WHEN A DECISION IS MADE TO DISCARD THIS MATERIAL, AS RECEIVED, IS IT CLASSIFIED AS A HAZARDOUS WASTE? Y. FEDERAL HAZARDOUS WASTE CODE: NA. CHARACTERISTIC WASTE: IGNITABLE:D001. CORROSIVE: NA. REACTIVE : NA. TCLP: NA. STATE OR LOCAL LAWS MAY IMPOSE ADDITIONAL REGULATORY REQUIREMENTS REGARDING DISPOSAL .

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

Transport Information:DOT INFORMATION (49 CFR 172.101) PROPER SHIPPING NAME: PETROLEUM DISTILLATES, N.O.S. HAZARD TECHNICAL NAME: ALIPHATIC HYDROCARBON. HAZARD CLASS: COMBUSTIBLE LIQUID. UN/NA NUMBER: UN1268. PACKING GROUP : III. CALL DOW CORNING TRANSPORTATION, (517) 496-8577, IF ADDITIONAL INFORMATION IS REQUIRED.

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

SARA Title III Information:SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE. SECTION 304 CERCLA HAZARDOUS SUBSTANCES: NONE. SECTION 312 HAZARD CLASS: ACUTE-YES, CHRONIC-Y, FIRE-Y, PRESSURE-N, REACTIVE-N. Y=YES. N=NO. SECTION 313 TOXIC CHEMICALS: NOT APPLIC. 1 ZINC COMPOUNDS.

Federal Regulatory Information:COMMENTS: THE ABOVE COMPONENTS ARE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200. TSCA: ALL CHEMICAL SUBSTANCES FOUND IN THIS PRODUCT COMPLY WITH THE TOXIC SUBSTANCES CONTROL ACT INVENTORY REPORTING REQUIREMENTS.

State Regulatory

Information:CALIFORNIA: NONE KNOWN. MASSACHUSETTS: 8052413, 65, STODDARD SOLOVENT. 7782425, 5, GRAPHITE. 1317335, 18, MOLYBDENUM DISULFIDE. NEW JERSEY: 7782425, 5, GRAPHITE. 9022962, 10, POLYBUTYL TITENATE.60580 612,1, 5-NITRO-1,3-BENZENEDICARBOXYLIC ACID, ZINC SALT. 8052413, 65, STODDARD SOLVENT; #1736. 1317335, 18, MOLYBDENUM (IV) SULFIDE; #1310. PENNSYLVANIA: 8052413, 65, STODDARD SOLOVENT. 7782425, 5 , GRAPHITE. 1317335, 18, MOLYBDENUM DISULFIDE, 9022962, 1

0, POLYBUTYL TITENATE.

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

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