

DOW CORNING CORPORATION -- DOW CORNING(R) 321 DRY FILM LUBRICANT(AEROSOL) --
9150-01-380-4235

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

Product ID:DOW CORNING(R) 321 DRY FILM LUBRICANT(AEROSOL)

MSDS Date:12/21/1999

FSC:9150

NIIN:01-380-4235

MSDS Number: CKSHF

=== Responsible Party ===

Company Name:DOW CORNING CORPORATION

Address:3901 SOUTH SAGINAW ROAD

Box:997

City:MIDLAND

State:MI

ZIP:48686-0997

Countr

y:US

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

Emergency Phone Num:517-496-5900

Resp. Party Other MSDS Num.:02413159

Chemtrec Ind/Phone:(800)424-9300

CAGE:5D028

=== Contractor Identification ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT

Address:2275 TUCKER INDUSTRIAL RD

Box:City:TUCKER

State:GA

ZIP:30084

Country:US

Phone:770-938-4513/FAX 770-938-3966

Contract Num:SP0450-00-M-C854

CAGE:1MDA6

Company Name:DOW CORNING CORP

Address:3901 S SAGINAW RD

Box:997

City:MIDLAND

State:MI

ZIP:48686-099

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Country:US
Phone:517-496-6000/517-496-6315
CAGE:5D028
Company Name:TOTAL PLASTICS, INC.
Address:5424 PULASKI HWY
Box:City:BALTIMORE
State:MD
ZIP:21205
Country:US
Phone:410-483-1122/FAX 410-483-1493
Contract Num:SP0450-01-M-LL37
CAGE:1NZM2

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Composition/Information on Ingredients
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Ingred Name:SWEETENED LIQUIFIED PETROLEUM GAS (LPG)
CAS:68476-86-8
Minimum % Wt:40.
Maximum % Wt:70.

Ingred Name:STODDARD SOLVENT
CAS:8052-41-3
RTECS #:WJ8925000
Minimum % Wt:30.
Maximum
% Wt:60.
OSHA PEL:2900 MG/M3;500 PPM
ACGIH TLV:525 MG/M3;100 PPM

Ingred Name:POLYBUTYL TITANATE
CAS:9022-96-2
Minimum % Wt:5.
Maximum % Wt:10.

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Hazards Identification
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Health Hazards Acute and Chronic:ACUTE: EYES: MAY CAUSE REDNESS AND DISCOMFORT. SKIN: NOT SIGNIFICANT IRRITATION EXPECTED. INHALATION: VAPOR MAY IRRITATE NOSE AND THROAT AND CAUSE DROWSINESS, DIZZINESS, CONFUSION OR LOSS OF COORDINATION. ORAL: ASPIRATION OF LIQUID

WHILE VOMITING MAY INJURE LUNGS. CHRONIC:

SKIN: REPEATED OR PROLONGED CONTACT MAY CAUSE DEFATTING AND DRYING RESULTING IN SKIN IRRITATION AND DERMATITIS. INHALATION: GAS MAY SUFFOCATE BY REDUCING OXYGEN. EXPOSURES TO HIGH CONCENTRATIONS MAY CAUSE CARDIAC SENSITIZATION. EXPOSURE BY INHALATION MAY INJURE LUNGS AND LIVER.: REPEATED INGESTION OR SWALLOWING LARGE AMOUNTS MAY INJURE INTERNALLY.

Effects of Overexposure:SKIN: DEFATTING AND DRYING, IRRITATION, DERMATITIS.

INHALATION: SUFFOCATE BY REDUCING OXYGEN AVAILABLE FOR BREATHING. CARDIAC SENSITIZATION. INHALATION: MAY INJURE ORGAN(S): LUNGS. LIVER. ORAL: INJURE INTERNALLY. EYES: REDNESS AND DISCOMFORT. INHALATION ; DROWSINESS, DIZZINESS, CONFUSION, LOSS OF COORDINATION.

Medical Cond Aggravated by Exposure:NO KNOWN APPLICABLE INFORMATION.

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

First Aid:EYE: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. SKIN: REMOVE F

ROM SKIN AND WASH THOROUGHLY WITH SOAP AND 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 IMMEDIATE MEDICAL ATTENTION. ONLY INDUCE VOMITING AT THE INSTRUCTION OF A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. TREAT ACCORDING TO PERSONS CONDITION AND SPECIFICS OF EXPOSURE.

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

Flash Point:FLAMMABLEAEROSOL

Autoignition Temp:Autoignition Temp Text:N/D

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:ON LARGE FIRES USE DRY CHEMICAL, FOAM OR WATER SPRAY. ON SMALL FIRES USE CARBON DIOXIDE (CO2), DRY CHEMICAL OR WATER SPRAY. WATER CAN BE USED TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING LARGE 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 MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.

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

Spill Release Procedures:REMOVE IGNITION SOURCES. EVACUATE OR ISOLATE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN. OBSERVE ALL PERSONAL PROTECTION EQUIPM

ENT RECOMMENDATIONS. LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS MATERIAL, AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN CLEANUP OF RELEASES. DETERMINE WHICH FEDERAL , STATE, LOCAL LAWS AND REGULATIONS ARE APPLICABLE.

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

Handling and Storage Precautions:USE WITH ADEQUATE VENTILATION. AVOID EYE CONTACT. AVOID SKIN CONTACT. DO NOT BREATHE VAPOR, MIST, DUST,

OR FUMES. KEEP CONTAINER CLOSED. DO NOT TAKE INTERNALLY. CONTENTS UNDER PRESSURE. DO NOT STORE ABOVE 120F/49C OR IN DIRECT SUNLIGHT. STATIC ELECTRICITY WILL ACCUMULATE AND MAY IGNITE VAPORS.

Other Precautions:PREVENT A POSSIBLE FIRE HAZARD BY BONDING AND GROUNDING OR INERT GAS PURGE. KEEP CONTAINER CLOSED AND AWAY FROM HEAT, SPARKS, AND FLAME.

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

Respiratory Protection:USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST

VENTILATION IS PROVIDED OR AIR SAMPLING SHOW EXPOSURES WITHIN GUIDELINES. INDUSTRIAL HYGIENE PERSONNEL CAN ASSIST IN JUDGING ADEQUACY OF EXISTING ENGINEERING CONTROLS. SUITABLE RESPIRATOR: ORGANIC VAPOR/DUST/MIST/FUME TYPE. USE SELF-CONTAINED BREATHING APPARATUS (SCBA) OR OTHER SUPPLIED-AIR RESPIRATOR.

Ventilation:LOCAL AND GENERAL VENTILATION ARE RECOMMENDED.

Protective Gloves:SILVER SHIELD(R). 4H(R). POLYVINYLALCOHOL. VITON(R). NITRILE RUBBER.

Eye Protection:USE

PROPER PROTECTION-SAFETY GLASSES AS A MINIMUM.

Work Hygienic Practices:WASH AT MEALTIME AND END OF SHIFT. CONTAMINATED CLOTHING AND SHOES SHOULD BE REMOVED AS SOON AS PRACTICAL AND THOROUGHLY CLEANED BEFORE REUSE. CHEMICAL PROTECTIVE GLOVES ARE RECOMMENDED.

Supplemental Safety and Health

SPILLS-AVOID EYE CONTACT. AVOID SKIN CONTACT. DO NOT BREATHE VAPOR, MIST, DUST OR FUMES. KEEP CONTAINER CLOSED. DO NOT TAKE INTERNALLY. USE REASONABLE CARE.

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Physical/Chemical Properties =====

HCC:V3

Boiling Pt:B.P. Text:NOT DETERMINED

Melt/Freeze Pt:M.P/F.P Text:NOT DETERMINED

Vapor Pres:NOT DETERMINED

Vapor Density:N/D

Spec Gravity:1 @25C

pH:N/D

Viscosity:N/A(AEROSOL)

Solubility in Water:NOT DETERMINED

Appearance and Odor:AEROSOL,CHARCOAL COLOR, SOLVENT ODOR.

Percent Volatiles by Volume:N/D

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZING MATERIAL CAN CAUSE A REACTION.

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Stability Condition to Avoid:NONE

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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Toxicological Information =====

Toxicological Information:COMPLETE INFORMATION IS NOT AVAILABLE.

SPECIAL HAZARD INFORMATION ON COMPONENTS: NO KNOWN APPLICABLE INFORMATION.

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Ecological Information =====

Ecological:NO SPECIFIC INFORMATION IS AVAILABLE. ACUTE AQUATIC

TOXICITY (MG/L) : ACUTE AQUATIC TOXICITY (MG/L)HIGH: 100.

ACUTE TERRESTRIAL TOXICITY: HIGH: 2000. THIS TABLE CAN BE USED TO CLASSIFY THE ECOTOXICITY OF THIS PRODUCT WHEN ECOTOXICITY DATA IS LISTED ABOVE. PLEASE READ THE OTHER INFORMATION PRESENTED IN THE SECTION CONCERNING THE OVERALL ECOLOGICAL SAFETY OF THIS MATERIAL.

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

Waste Disposal Methods:WHEN DECISION IS MADE TO DISCARD THIS MATERIAL, AS RECEIVED, IT IS CLASSIFIED AS A HAZARDOUS WASTE. CHARACTERISTIC WASTE:
IGNITABLE D001, CORROSIVE N/A , REACTIVE: N/A. STATE OR LOCAL LAWS MAY IMPOSE ADDITIONAL REQUIREMENTS REGARDING DISPOSAL. CALL DOW CORNING CORP ENVIRONMENTAL MANAGEMENT ,517-496- 6315, IF ADDITIONAL INFORMATIONIS REQUIRED.

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

Transport Information:DOT ROAD SHIPMENT INFORMATION (49 CFR 172.101):
PROPER SHIPPING NAME: CONSUMER COMMODITY; HAZARD CLASS: ORMD; PKG: NOT APPLICABLE. OCEAN SHIPMENT (IMDG): PROPER SHIPPING NAME:
AEROSOLS; HAZARD CLASS: 2 LTD. QTY.; UN 1950; PKG: NOT APPLICABLE. MARINE POLLUTANT: NOT APPLICABLE. AIR SHIPMENT (ICAO): PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE; HAZARD CLASS: 2.1 LTD. QTY.; UN 1950; PKG: NOT APPLICABLE. CALL CORNING TRANSPORTATION, 517-496-8577, IF ADDITIONAL INFORMATION IS REQUIRED.

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

SARA Title III Information:EPA SARA TITLE III CHEMICAL LISTINGS:
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE. SECTION 304 CERCLA HAZARDOUS SUBSTANCES: CAS # 60580-61-2; WT % 0.5; ZINC. SECTION 312 HAZARD CLASS: ACUTE: YES; CHRONIC: YES; FIRE: YES; PRESSURE: YES: REACTIVE: NO. SECTION 313 TOXIC CHEMICALS: NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.
State Regulatory Information:CALIFORNIA: WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED BY THE STATE OF CALIFORNIA UNDER THE SAFE DRINKING WATER AND TOXIC ENFORCEMENT

ACT OF 1986

(PROPOSITION 65) AS BEING KNOWN TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM. NONE KNOWN.

MASSACHUSETTS: CAS#8052-41-3, WT%: 30-60; STODDARD SOLVENT.

CAS#1317-33-5, WT%: 7-13; MOLYBDENUM DICHLORIDE. CASE# 7782-42-5:

WT%: 3-7; GRAPHITE (NATURAL) DUST. NEW JERSEY: CAD#68476; WT%:

40-7; SWEETENED LIQUIFIED PETROLEUM GAS (LPG). CAS# 8052-41-3:

WT%: 30-60; STODDARD SOLVENT. (CONTD TO OTHER INFORMATION)

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===== Other Information =====
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Disclaimer (provided with this information by the compiling agencies):

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particular situation.