

DOW CORNING -- MOLYKOTE 3402C BONDED LUBRICANT**MATERIAL SAFETY DATA SHEET**

NSN: 9150013027377

Manufacturer's CAGE: 71984

Part No. Indicator: B

Part Number/Trade Name: MOLYKOTE 3402C BONDED LUBRICANT

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General Information
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Company's Name: DOW CORNING CORP
Company's Street: S SAGINAW RD
Company's City: MIDLAND
Company's State: MI
Company's Country: US
Company's Zip Code: 48686
Company's Emerg Ph #: 517-496-5900
Company's Info Ph #: 517-496-6000
Record No. For Safety Entry: 002
Tot Safety Entries This Stk#: 002
Status: SMJ
Date MSDS Prepared: 27JUL94
Safety Data Review Date: 15JAN98
Supply Item Manager: CX
MSDS Serial Number: CDVTM

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: ISOPROPYL ALCOHOL (SARA 313)
Ingredient Sequence Number: 01
Percent: 45
NIOSH (RTECS) Number: NT8050000
CAS Number: 67-63-0
OSHA PEL: 400 PPM
ACGIH TLV: 400 PPM, 500 STEL

Proprietary: NO
Ingredient: BUTYL ALCOHOL; (N-BUTYL ALCOHOL) (SARA 313) (CERCLA)
Ingredient Sequence Number: 02
Percent: 22
NIOSH (RTECS) Number: E01400000
CAS Number: 71-36-3
OSHA PEL: 100 PPM
ACGIH TLV: 50 PPM, S, C

Proprietary: NO
Ingredient: ETHANOL, 2-ETHOXY-, ACETATE; (2-ETHOXYETHYL ACETATE)
Ingredient Sequence Number: 03
Percent: 3
NIOSH (RTECS) Number: KK8225000
CAS Number: 111-15-9
OSHA PEL: 100 PPM, S
ACGIH TLV: 5 PPM, S

Proprietary: NO
Ingredient: POLYVINYL ACETATE; (POLYVINYL ACETATE POLYVINYL ALCOHOL BUTYRAL)

Ingredient Sequence Number: 04

Percent: 5

NIOSH (RTECS) Number: 1008041PA

CAS Number: 68648-78-2

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Proprietary: NO

Ingredient: ANTIMONY OXIDE; (ANTIMONY TRIOXIDE) (SARA 313) (CERCLA)

Ingredient Sequence Number: 05

Percent: 10

NIOSH (RTECS) Number: CC5650000

CAS Number: 1309-64-4

OSHA PEL: 0.5 MG/M3 (SB)

ACGIH TLV: 0.5 MG/M3 (SB)

Proprietary: NO

Ingredient: MOLYBDENUM SULFIDE; (MOLYBDENUM DISULFIDE)

Ingredient Sequence Number: 06

Percent: 10

NIOSH (RTECS) Number: QA4697000

CAS Number: 1317-33-5

OSHA PEL: 5 MG/M3 MD

ACGIH TLV: 5 MG/M3 MD

Proprietary: NO

Ingredient: BASIC LEAD PHOSPHITE; (LEAD OXIDE PHOSPHONATE)

Ingredient Sequence Number: 07

Percent: 3

NIOSH (RTECS) Number: 1004581PB

CAS Number: 12141-20-7

OSHA PEL: RULE IN PROCESS

ACGIH TLV: 0.15 MG/M3 PB

Proprietary: NO

Ingredient: RESIN; (PHENYL ESTER RESIN)

Ingredient Sequence Number: 08

Percent: 2

NIOSH (RTECS) Number: 1000250RE

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Proprietary: NO

Ingredient: VOLATILE ORGANIC COMPOUND, INCLUSIVE AND EXCLUSIVE OF WATER AND EXEMPT COMPOUNDS: 725 G/L

Ingredient Sequence Number: 09

NIOSH (RTECS) Number: 9999999V0

OSHA PEL: N/K (FP N)

ACGIH TLV: N/K (FP N)

Proprietary: NO

Ingredient: SUPDAT: LATEST HAZ LIST INFO & SAFE HNDLG & EXPOS INFO (FP N).

SKIN: NONE KNOWN. INHAL/INGEST: SAME AS ACUTE EFTS. (ING 11)

Ingredient Sequence Number: 10

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 10: COMMENTS: TRANSIENT SKIN ERRUPTIONS/LESIONS ("ANTIMONY MEASLES") MAY FORM AFTER PRLNGD/RPTD SKIN CNTCT. (ING 12)

Ingredient Sequence Number: 11

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 11: WHEN HEATED TO TEMPS >150C IN PRESENCE OF AIR, PROD CAN FORM FORMALDEHYDE VAPS. FORMALDEHYDE IS POTNTL (ING 13)

Ingredient Sequence Number: 12

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 12: CANCER HAZ, KNOWN SKIN & RESP SENSITIZER & IRRITANT TO EYES, NOSE, THROAT, SKIN & DIGEST SYS. SAFE HNDLG (ING 14)

Ingredient Sequence Number: 13

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 13: OPERATIONS MAY BE MAINTAINED BY KEEPING VAPOR CONCS W/ IN OSHA PEL FOR FORMALDEHYDE.

Ingredient Sequence Number: 14

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: SPILL PROC: ABSORB, ETC, USED DURING CLEANUP ONLY IN APPROP CNTNRS OR COVERED W/WATER. DETERMINE WHETHER TO (ING 16)

Ingredient Sequence Number: 15

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 15: EVACUATE/ISOLATE AREA DEPENDING ON SUCH SPECIFIC FACTORS AS SITE LOCATION, POPULATION DENSITY, TRAFFIC (ING 17)

Ingredient Sequence Number: 16

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 16: FLOW, SIZE OF RELS/SPILL, WEATHER CNDTNS, MATL' S HAZS & RISKS TO PEOPLE & IF FIRE IS UNDERWAY/POSS. MOP/ (ING 18)

Ingredient Sequence Number: 17

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 17: WIPE/SOAK UP W/ABSORB & CNTN FOR SALVAGE/DISP. CLEAN ANY REMAINING SLIPPERY SURFS BY APPROP TECHNIQUES (ING 19)

Ingredient Sequence Number: 18

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 18: SUCH AS: SEVERAL MOPPING/SWABBINGS W/APPROP SOLVS; WASHING W/MILD, CAUSTIC DETERGENTS/SOLNS; HIGH PRESS (ING 20)

Ingredient Sequence Number: 19

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 19: STEAM FOR LG AREAS. FOR NONSILICONES, USE TYPICAL INDUS CLEANING MATLS. OBSERVE SFTY PRECS APPLIC TO (ING 21)

Ingredient Sequence Number: 20

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 20: CLEANING MATL USED. LG SPILLS: PROVIDE DIKING/OTHER APPROP CONTAINMENT TO KEEP MATL FROM SPREAD. OBSERVE (ING 22)

Ingredient Sequence Number: 21

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 21: ALL PERSONAL PROT EQUIP RECOMS. LOC, STATE & FED REPORTING REQS MAY APPLY TO SPILLS/RELS OF MATL INTO (ING 23)

Ingredient Sequence Number: 22

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 22: ENVIRONMENT. PROT EQUIP: EYES: ANSI APPRVD FULL FACE RESP. SKIN: WASH @ MEALS & END OF SHIFT. REMOVE CONTAMD(ING 24)

Ingredient Sequence Number: 23

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 23; CLTHG & SHOES AS SOON AS PRACTICAL & THOROUGHLY CLEAN BEFORE REUSE. CHEM PROT GLOVES RECOM USE NIOSH (ING 25)

Ingredient Sequence Number: 24

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 24: APPRVD SCBA/OTHER SUPPLIED-AIR RESP. AVOID EYE & SKIN CNTCT & BRTHG VAP. KEEP CNTNR CLSD. DO NOT TAKE INTERNALLY.

Ingredient Sequence Number: 25

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Physical /Chemical Characteristics

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Appearance And Odor: BLACK LIQUID; SOLVENT ODOR.

Melting Point: N/A

Specific Gravity: 1.01

Solubility In Water: NONE

pH: N/A

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Fire and Explosion Hazard Data

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Flash Point: 54.0F, 12.2C

Flash Point Method: CC

Extinguishing Media: WATER FOG (OR SPRAY). CARBON DIOXIDE. DRY CHEMICAL. FOAM WATER IS UNSUITABLE EXTINGUISHING AGENT.

Special Fire Fighting Proc: USE NIOSH APPRVD SCBA & FULL PROT EQUIPMENT (FP N). EVACUATE AREA IN CASE OF OVERHEATING OR FIRE. HEAT EXPOSURE PRESSURIZES CLSD CNTNRS. COOL W/WATER SPRAY.

Unusual Fire And Expl Hazrds: VAPS ARE HVR/AIR & CAN TRAVEL ALONG GROUND TO REMOVE IGNIT SOURCES. STATIC ELEC MAY ACCUM & IGNITE VAPS. PVNT POSS FIRE HAZ BY SUITABLE MEANS, SUCH AS (SUPDAT)

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Reactivity Data

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Stability: YES

Cond To Avoid (Stability): NONE.

Materials To Avoid: OXIDIZING MATERIAL CAN CAUSE A REACTION.

Hazardous Decomp Products: THERMAL BREAKDOWN OF PROD DURING FIRE/VERY HIGH HEAT CNDTNS: CARBON OXIDES & TRACES OF INCOMPLETELY BURNED (SUPDAT)

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NOT RELEVANT.

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Health Hazard Data

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LD50- LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: ACUTE: EYES: DIRECT CNTCT MAY IRRIT SERIOUSLY W/MOD TO SEV REDNESS, SWELL & SOME CORNEAL INJURY LASTING SEVERAL DAYS TO WK. SKIN: SINGLE RELATIVELY SHORT EXPOS (<24 HRS) IRRIT. RPTD PRLNGD CNTCT (24-48 HRS) IRRIT SERIOUSLY, MAY BURN MILDLY, OVEREXP BY SKIN ABSORPTION MAY INJURE: BLOOD, KIDNEYS, NERVOUS (EFTS OF OVEREXP)

Carcinogeni city - NTP: NO

Carcinogeni city - IARC: YES

Carcinogeni city - OSHA: NO

Explanati on Carcinogeni city: ANTIMONY TRIOXIDE: IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMICALS TO MAN, VOL 47, PG 291, 1989: GROUP 2B.

Signs/Symptoms Of Overexp: HLTH HAZ: SYS. INHAL: SHORT VAP EXPOS MAY CAUSE DROW, IRRIT NOSE & THROAT & CAUSE INJURY TO: BLOOD, LUNGS, LIVER, KIDNEYS, NERVOUS SYS. INGEST: INHAL LIQ WHILE VOMIT CAN INJURE LUNGS SERIOUSLY. SM

AMTS TRANSFERRED TO MOUTH BY FINGERS DURING USE, ETC, MAY INJURE: HEART, BLOOD LIVER, KIDNEYS, NERVOUS SYS. CHRONIC: (SUPDAT)
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MED ATTENTION. SKIN: REMOVE FROM SKIN & IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MED ATTENTION IF IRRITATION OR ILL EFFECTS DEVELOP OR PERSIST. INHALATION: REMOVE TO FRESH AIR. GET MED ATTENTION. DO NOT INDUCE VOMITING. COMMENTS: TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFICS OF EXPOSURE.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: DISP OF COLLECTED PROD, RESIDUES & CLEANUP MATLS MAY BE GOVT REGULATED. OBSERVE ALL APPLIC LOC, STATE & FED WASTE MANAGEMENT REGS. REMOVE POSS IGNIT SOURCES & IF NEEDED, USE NONSPKG TOOLS & EQUIP. TO PVNT POSSSPONT COMBUST, STORE RAGS, MOPS, (ING 15)
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS (FP N). COMPLETE INFORMATION NOT YET AVAILABLE. CALL DOW CORNING ENVIRONMENTAL MGMT 517-496-6315, IF MORE INFORMATION IS DESIRED.
Precautions- Handling/Storing: KEEP CONTAINER CLOSED AND AWAY FROM HEAT, SPARKS AND OPEN FLAME.
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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Control Measures

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Respiratory Protection: USE NIOSH APPRVD RESP PROT (ORGANIC VAP TYPE) UNLESS ADEQ LOC EXHST VENT IS PROVIDED OR AIR SAMPLING DATA SHOW EXPOS ARE W/IN RECOMD EXPOS GUIDELINES. INDUSTRIAL HYGIENE PERS CAN ASSIST IN JUDGING ADEQUACY OF EXISTING ENGINEERING CONTROLS.
Ventilation: LOCAL EXHAUST: RECOMMENDED. GENERAL VENTILATION: RECOMMENDED.
Protective Gloves: CHEMICAL PROTECTIVE GLOVES.
Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).
Other Protective Equipment: ANSI APPROVED EYE WASH AND DELUGE SHOWER (FP N).
Work Hygienic Practices: WASH AT MEALTIME AND END OF SHIFT. REMOVE CONTAMD CLTHG AND SHOES AS SOON AS PRACTICAL & THOROUGHLY CLEAN BEFORE REUSE.
Suppl. Safety & Health Data: EXPLD HAZ: BONDING & GROUNDING, INERT GAS PURGE, VAPOR DILUTION & THE LIKE. HAZ DECOMP PRODS: CARBON CMPDS. CHLORINE CMPDS. PHOSPHORUS OXIDES. METAL OXIDES. SULFUR OXIDES. FORMALDEHYDE. EFTS OF OVEREXP: LEAD APPEARS ON THE NAVY LIST OF OCCUP CHEM REPRO HAZS. SEEK CONSULTATION FROM APPROP HLTH HAZS CONCERNING (ING 10)

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Transportation Data

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Disposal Data

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Label Data

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Label Required: YES
Technical Review Date: 15MAY97
Label Date: 29APR97
Label Status: G
Common Name: MOLYKOTE 3402C BONDED LUBRICANT

Chronic Hazard: YES

Signal Word: DANGER!

Acute Health Hazard-Severe: X

Contact Hazard-Severe: X

Fire Hazard-Severe: X

Reactivity Hazard-None: X

Special Hazard Precautions: FLAMMABLE. ACUTE: EYES: MODERATE TO SEVERE REDNESS, SWELLING AND SOME CORNEAL INJURY. SKIN: REPEATED PROLONGED CONTACT IRRITATES SERIOUSLY, MAY BURN MILDLY. SKIN ABSORPTION MAY INJURE BLOOD, KIDNEYS, NERVOUS SYSTEM INHALATION: DROWSINESS AND IRRITATION TO NOSE AND THROAT. CAN CAUSE INJURY TO BLOOD, LUNGS, LIVER, KIDNEYS, NERVOUS SYSTEM INGESTION: MAY INJURE HEART, BLOOD, LIVER, KIDNEYS, NERVOUS SYSTEM ASPIRATION CAN SERIOUSLY INJURE LUNGS. CHRONIC: CANCER HAZARD. CONTAINS ANTIMONY TRIOXIDE WHICH IS LISTED AS AN ANIMAL LIVER CARCINOGEN (FP N). LEAD APPEARS ON THE NAVY OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS LIST (FP N).

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: DOW CORNING CORP

Label Street: SOUTH SAGINAW RD

Label City: MIDLAND

Label State: MI

Label Zip Code: 48686

Label Country: US

Label Emergency Number: 517- 496- 5900; 800- 424- 9300(CHEMTREC)