

MACCO ADHESIVES -- LN-603 LIQUID NAILS, 0600301  
MATERIAL SAFETY DATA SHEET  
NSN: 804000N002122  
Manufacturer's CAGE: 01PD6  
Part No. Indicator: B  
Part Number/Trade Name: LN-603 LIQUID NAILS, 0600301

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#### General Information

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Company's Name: MACCO ADHESIVES  
Company's Street: 825 EUCLID AVE  
Company's City: CLEVELAND  
Company's State: OH  
Company's Country: US  
Company's Zip Code: 44115  
Company's Emerg Ph #: 800-634-0015  
Company's Info Ph #: 216-344-8049  
Safety Data Action Code: A  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 002  
Status: SMJ  
Date MSDS Prepared: 10MAR95  
Safety Data Review Date: 13OCT97  
MSDS Serial Number: CFLMM  
Hazard Characteristic Code: NK

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#### Ingredients/Identity Information

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Proprietary: NO  
Ingredient: STYRENE POLYMER WITH 1,3-BUTADIENE; (BUTADIENE-STYRENE POLYMER) (RUBBER)  
Ingredient Sequence Number: 01  
Percent: 1-5  
Ingredient Action Code: A  
NIOSH (RTECS) Number: WL6478000  
CAS Number: 9003-55-8  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Proprietary: NO  
Ingredient: CARBONIC ACID, CALCIUM SALT (1:1); (CALCIUM CARBONATE)  
Ingredient Sequence Number: 02  
Percent: 5-10  
Ingredient Action Code: A  
NIOSH (RTECS) Number: FF9335000  
CAS Number: 471-34-1  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Proprietary: NO  
Ingredient: CLAY (KAOLIN); (KAOLIN)

Ingredient Sequence Number: 03  
Percent: 30-40  
Ingredient Action Code: A  
NIOSH (RTECS) Number: GF1670500  
CAS Number: 1332-58-7  
OSHA PEL: 15 MG/M3 TDUST  
ACGIH TLV: 2 MG/M3 TDUST

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Proprietary: NO  
Ingredient: VM & P NAPHTHA  
Ingredient Sequence Number: 04  
Percent: 30-40  
Ingredient Action Code: A  
NIOSH (RTECS) Number: 1003161VN  
CAS Number: 64742-89-8  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Proprietary: NO  
Ingredient: SILICA, CRYSTALLINE - QUARTZ  
Ingredient Sequence Number: 05  
Percent: 0.1-1  
Ingredient Action Code: A  
NIOSH (RTECS) Number: VV7330000  
CAS Number: 14808-60-7  
OSHA PEL: SEE TABLE Z-3  
ACGIH TLV: 0.1 MG/M3 RDUST

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Proprietary: NO  
Ingredient: CYCLOHEXANE (SARA 313) (CERCLA)  
Ingredient Sequence Number: 06  
Percent: 1-5  
Ingredient Action Code: A  
NIOSH (RTECS) Number: GU6300000  
CAS Number: 110-82-7  
OSHA PEL: 300 PPM  
ACGIH TLV: 300 PPM

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Proprietary: NO  
Ingredient: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (SEVERE)  
HEAVY NAPHTHENIC  
Ingredient Sequence Number: 07  
Percent: 5-10  
Ingredient Action Code: A  
NIOSH (RTECS) Number: PY8035001  
CAS Number: 64742-52-5  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Proprietary: NO  
Ingredient: STEAM-CRACKED, POLYMERS W/LIGHT STEAM-CRACKED PETROLEUM  
NAPHTHA

Ingredient Sequence Number: 08  
Percent: 10-20  
Ingredient Action Code: A  
NIOSH (RTECS) Number: 1008542SP  
CAS Number: 68410-16-2  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Proprietary: NO  
Ingredient: BUTADIENE, STYRENE, DIVINYLBENZENE POLYMER  
Ingredient Sequence Number: 09  
Percent: 5-10  
Ingredient Action Code: A  
NIOSH (RTECS) Number: 1009628BS  
CAS Number: 26471-45-4  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Proprietary: NO  
Ingredient: SUPDAT:CONSIDERED LIMITED FOR CARCINOGENICITY. CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NON (ING 11)  
Ingredient Sequence Number: 10  
Ingredient Action Code: A  
NIOSH (RTECS) Number: 9999999ZZ  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE

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Proprietary: NO  
Ingredient: ING 10:CANCEROUS LUNG DISEASE, NTP HAS CLASSIFIED CRYSTALLINE SILICA A REASONABLY ANTIC HUMAN CARCINOGEN.  
Ingredient Sequence Number: 11  
Ingredient Action Code: A  
NIOSH (RTECS) Number: 9999999ZZ  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE

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Proprietary: NO  
Ingredient: FIRST AID PROC:INGEST:IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.  
Ingredient Sequence Number: 12  
Ingredient Action Code: A  
NIOSH (RTECS) Number: 9999999ZZ  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE

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Proprietary: NO  
Ingredient: SPILL PROC:SPILLS-SHUT OFF LEAK IF SAFE TO DO SO. DIKE & CONTAIN SPILL. PUMP TO STORAGE/SALVAGE VESSELS. USE (ING 14)  
Ingredient Sequence Number: 13  
Ingredient Action Code: A

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: ING 13:ABSORB TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE  
MATL

& RINSE WATER OUT OF SEWERS & WATER COURSES. (ING 15)

Ingredient Sequence Number: 14

Ingredient Action Code: A

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: ING 14:SM SPILLS-USE ABSORBENT TO PICK UP RESIDUE & DISPOSE OF  
PROPERLY.

Ingredient Sequence Number: 15

Ingredient Action Code: A

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: OTHER PREC:AVOIDED, USE APPROP RESP PROT AS DIRECTED UNDER  
SPEC PROT INFO. EMPTY CNTNRS MAY CONTAIN HAZARDOUS (ING 17)

Ingredient Sequence Number: 16

Ingredient Action Code: A

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: ING 16:RESIDUES. GROUND EQUIP WHEN TRANSFERRING TO PREVENT  
ACCUMULATION OF STATIC CHARGE.

Ingredient Sequence Number: 17

Ingredient Action Code: A

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: TAN PASTE.

Boiling Point: 179F,82C

Specific Gravity: 1.125

Evaporation Rate And Ref: NOT KNOWN

Solubility In Water: NOT KNOWN

Percent Volatiles By Volume: 51.67

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## Fire and Explosion Hazard Data

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Flash Point: 23.0F,-5.0C

Flash Point Method: SCC

Lower Explosive Limit: 1.2%

Upper Explosive Limit: 8.4%

Extinguishing Media: DRY CHEMICAL OR FOAM, WATER FOG, CARBON DIOXIDE.

Special Fire Fighting Proc: USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). WATER MAY BE USED TO COOL & PORTECT EXPOSED CONTAINERS.

Unusual Fire And Expl Hazrds: CLSD CNTNRS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT/FIRE. VAPS MAY IGNITE EXPLOSIVELY @ AMBIENT TEMPS. VAPS ARE

HVR/AIR & MAY TRAVEL LONG DIST TO A (SUPDAT)

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## Reactivity Data

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Stability: YES

Cond To Avoid (Stability): ELEVATED TEMPERATURES.

Materials To Avoid: CONT W/OXIDIZING AGENT, STORAGE NEAR ACIDS, SPARKS, OPEN FLAME. IGNITION SOURCES.

Hazardous Decomp Products: CARBON MONOXIDE, CARBON DIOXIDE.

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:INHAL:IRRIT OF RESP TRACT. PRLNGD INHAL MAY LEAD TO FATG, DIZZ &/OR LT HEAD, HDCH, NAUS, VOMIT, CNS DEPRESS,

RESP PROBS, LOSS OF CONSCIOUSNESS, DEATH. SKIN:IRRIT. PRLNGD/RPTD CONT CAN CAUSE DERM, DEFAT. EYE:IRRIT. PRLNGD/RPTD CONT CAN CAUSE CONJ, TEARING OF EYES, REDNESS. INGEST:MAY CAUSE LUNG (EFTS OF OVEREXP)

Carcinogenicity - NTP: YES

Carcinogenicity - IARC: YES

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: SILICA, CRYSTALLINE-QUARTZ:IARC MONO, VOL 68, 1997:GROUP 1. NTP 7TH ANNUAL RPT ON CARCIN, 1994:ANTIC TO BE CARCIN.

Signs/Symptoms Of Overexp: HLTH HAZ:INFLAMM & DMG DUE TO ASPIR OF MATL INTO LUNGS, HDCH, NAUS, VOMIT, DIARR, GI DISTURB, CNS DEPRESS. SUPP HLTH INFO:OTHER EFTS OF OVEREXP MAY INCL TOX TO LUNGS. CONTAINS CRYSTALLINE

SILICA WHICH IS CONSIDERED HAZ BY INHAL, IARC HAS CLASSIFIED CRYSTALLINE

SILICA AS PROBABLY CARCIN FOR HUMANS (2A. THIS (SUPDAT)

Med Cond Aggravated By Exp: EYE, SKIN, RESPIRATORY DISORDERS.

**Emergency/First Aid Proc:**

INHAL:REMOVE TO FRESH AIR. RESTORE & SUPPORT CONTINUED BRTHG. GET EMER MED ATTN. HAVE TRAINED PERSON GIVE OXYG IF NEC. GET MED HELP FOR ANY BRTHG DFCLTY. SKIN:FLUSH W/WATER, THEN WASH THORO W/ FLUSH IMMED W/LG AMTS OF WATER, ESPECIALLY UNDER LIDS FOR @ LST 15 MINS. IF IRRIT/OTHER EFTS PERSIST, OBTAIN MED TREATMENT. (ING 12)

#### Precautions for Safe Handling and Use

Steps If Matl Released/Spill: COMPLY W/ALL APPLIC HLTH & ENVIR REGS. ELIM ALL SOURCES OF IGNIT. VENTILATE AREA W/EXPLO-PROOF EQUIP. USE NON-SPK TOOLS. EVAC ALL UNNEC PERS. PLACE COLLECTED MATL IMPROPER CNTNR. COMPLETE

PERSONAL PROT EQUIP MUST BE USED DURING CLEANUP. LG (ING 13)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE & LOCAL REGULATIONS. AVOID DISCHARGE TO NATURAL WATERS.

Precautions-Handling/Storing: STORE <80F. KEEP AWAY FROM HEAT, SPKS & OPEN FLAME. USE ONLY W/ADEQ VENT. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN.

Other Precautions: AVOID CONT W/SKIN & EYES, & BRTHG OF VAPS. KEEP CNTNRS TIGHTLY CLSD & UPRIGHT WHEN NOT IN USE. AVOID CNDTNS WHICH RSLT IN FORMATION OF INHALABLE PARTICLES SUCH AS SPRAYING/ABRADING(SANDING) PAINTED SURFS. IF SUCH CNDTNS CANNOT BE (ING 16)

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#### Control Measures

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Respiratory Protection: CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE STANDARS. WHERE RESPIRTORY PROTECTION IS REQUIRED, USE ONLY NIOSH APPROVED RESPIRATORS IN ACCORDANCE WITH OSHA STANDARD 29 VFR 1910.134.

Ventilation: PROVIDE DILUTION VENT/LOC EXHAUST TO PVNT BUILD-UP OF VAPS. USE EXPLOSION-PROOF EQUIP. USE NON-SPARKING EQUIP.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

Other Protective Equipment: ANSI APPRVD EYE WASH & DELUGE SHOWER (FP N). IMPERVIOUS CLOTHING, APRON, BOOTS.

Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.

Suppl. Safety & Health Data: EXPLO HAZ:SOURCE OF IGNIT & FLASH BACK. VAPS CAN FORM EXPLOSIVE MIX IN AIR @ ELEVATED TEMPS. MAY DECOMPOSE UNDER FIRE

CNDTNS IN AIR @ ELEVATED TOX GASES. EFTS OF OVEREXP:CLASSIFICATION IS BASED

ON FINDINGS OF LAB ANIMAL STUDIES THAT WERE CONSIDERED SUFFICIENT &

DATA  
FROM EPIDEMIOLOGICAL STUDIES THAT WERE (ING 10)

Transportation Data

Disposal Data

Label Data

Label Required: YES

Technical Review Date: 13OCT97

Label Date: 13OCT97

Label Status: M

Common Name: LN-603 LIQUID NAILS, 0600301

Chronic Hazard: YES

Signal Word: DANGER!

Acute Health Hazard-Moderate: X

Contact Hazard-Slight: X

Fire Hazard-Severe: X

Reactivity Hazard-None: X

Special Hazard Precautions: EXTREMELY FLAMMABLE. ACUTE: INHAL:IRRITATION  
OF RESPIRATORY TRACT. PROLONGED INHALATION MAY LEAD TO FATIGUE,  
DIZZINESS

&/OR LT HEAD, HEADACHE, NAUSEA, VOMITING, CNS DEPRESSION,  
RESPIRATORY

PROBLEMS, LOSS OF CONSCIOUSNESS, DEATH. SKIN: IRRITATION. EYE:  
IRRITATION.

PROLONGED/REPEATED CONTACT CAN CAUSE CONJ, TEARING OF EYES,  
REDNESS.

INGEST: MAY CAUSE LUNG INFLAMMATION DUE TO ASPIRATION, NAUSEA,  
HEADACHE,

VOMITING, DIARRHEA, GI DISTURBANCES, CNS DEPRESSION. CHRONIC: CANCER  
HAZARD. CONTAINS SILICA, CRYSTALLINE-QUARTZ, WHICH IS LISTED AS A  
HUMAN

LUNG CARCINOGEN (FP N). SKIN: DERMATITIS, DEFATTING. INHAL: SILICOSIS.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: MACCO ADHESIVES

Label Street: 825 EUCLID AVE

Label City: CLEVELAND

Label State: OH

Label Zip Code: 44115

Label Country: US

Label Emergency Number: 800-634-0015