

DOD Hazardous Materials Information System  
DoD 6050.5-L  
AS OF July 1998

FSC: 8040  
NIIN: 00N002122  
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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Item Name:  
Company's Name: MACCO ADHESIVES  
Company's Street: 825 EUCLID AVE  
Company's P. O. Box:  
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  
Distributor/Vendor # 1:  
Distributor/Vendor # 1 Cage:  
Distributor/Vendor # 2:  
Distributor/Vendor # 2 Cage:  
Distributor/Vendor # 3:  
Distributor/Vendor # 3 Cage:  
Distributor/Vendor # 4:  
Distributor/Vendor # 4 Cage:  
Safety Data Action Code:  
Safety Focal Point: N  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 002  
Status: SMJ  
Date MSDS Prepared: 10MAR95  
Safety Data Review Date: 13OCT97  
Supply Item Manager:  
MSDS Preparer's Name:  
Preparer's Company:  
Preparer's St Or P. O. Box:  
Preparer's City:  
Preparer's State:  
Preparer's Zip Code:  
Other MSDS Number:  
MSDS Serial Number: CFLMM  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code: NK  
Unit Of Issue:  
Unit Of Issue Container Qty:  
Type Of Container:  
Net Unit Weight:

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NRC/State License Number:  
Net Explosive Weight:  
Net Propellant Weight-Ammo:  
Coast Guard Ammunition Code:

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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:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: WL6478000  
 CAS Number: 9003-55-8  
 OSHA PEL: N/K (FP N)  
 ACGIH TLV: N/K (FP N)  
 Other Recommended Limit: N/K

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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:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: FF9335000  
 CAS Number: 471-34-1  
 OSHA PEL: N/K (FP N)  
 ACGIH TLV: N/K (FP N)  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: CLAY (KAOLIN); (KAOLIN)  
 Ingredient Sequence Number: 03  
 Percent: 30-40  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: GF1670500  
 CAS Number: 1332-58-7  
 OSHA PEL: 15 MG/M3 TDUST  
 ACGIH TLV: 2 MG/M3 TDUST  
 Other Recommended Limit: N/K

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

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ACGIH TLV: N/K (FP N)  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: SILICA, CRYSTALLINE - QUARTZ  
 Ingredient Sequence Number: 05  
 Percent: 0.1-1  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: VV7330000  
 CAS Number: 14808-60-7

OSHA PEL: SEE TABLE Z-3  
 ACGIH TLV: 0.1 MG/M3 RDUST  
 Other Recommended Limit: N/K

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 Proprietary: NO  
 Ingredient: CYCLOHEXANE (SARA 313) (CERCLA)  
 Ingredient Sequence Number: 06  
 Percent: 1-5  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: GU6300000  
 CAS Number: 110-82-7  
 OSHA PEL: 300 PPM  
 ACGIH TLV: 300 PPM  
 Other Recommended Limit: N/K

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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:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: PY8035001  
 CAS Number: 64742-52-5  
 OSHA PEL: N/K (FP N)  
 ACGIH TLV: N/K (FP N)  
 Other Recommended Limit: N/K

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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:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: 1008542SP  
 CAS Number: 68410-16-2  
 OSHA PEL: N/K (FP N)  
 ACGIH TLV: N/K (FP N)  
 Other Recommended Limit: N/K

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

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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

Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: 9999999ZZ  
 CAS Number:  
 OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE  
 Other Recommended Limit: N/K

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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  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: 9999999ZZ  
 CAS Number:  
 OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE  
 Other Recommended Limit: N/K

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 Proprietary: NO  
 Ingredient: FIRST AID PROC:INGEST:IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.  
 Ingredient Sequence Number: 12  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: 9999999ZZ  
 CAS Number:  
 OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE  
 Other Recommended Limit: N/K

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 Proprietary: NO  
 Ingredient: SPILL PROC:SPILLS-SHUT OFF LEAK IF SAFE TO DO SO. DIKE &

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CONTAIN SPILL. PUMP TO STORAGE/SALVAGE VESSELS. USE (ING 14)  
 Ingredient Sequence Number: 13  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: 9999999ZZ  
 CAS Number:  
 OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE  
 Other Recommended Limit: N/K

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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  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: 9999999ZZ  
 CAS Number:  
 OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE  
Other Recommended Limit: N/K

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Proprietary: NO  
Ingredient: ING 14:SM SPILLS-USE ABSORBENT TO PICK UP RESIDUE & DISPOSE OF PROPERLY.  
Ingredient Sequence Number: 15  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number: 999999ZZ  
CAS Number:  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE  
Other Recommended Limit: N/K

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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  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number: 999999ZZ  
CAS Number:  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE  
Other Recommended Limit: N/K

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Proprietary: NO  
Ingredient: ING 16:RESIDUES. GROUND EQUIP WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

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Ingredient Sequence Number: 17  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: N  
NIOSH (RTECS) Number: 999999ZZ  
CAS Number:  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE  
Other Recommended Limit: N/K

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Physical/Chemical Characteristics  
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Appearance And Odor: TAN PASTE.  
Boiling Point: 179F,82C  
Melting Point: N/K  
Vapor Pressure (MM Hg/70 F): N/K  
Vapor Density (Air=1): N/K  
Specific Gravity: 1.125  
Decomposition Temperature: N/K  
Evaporation Rate And Ref: NOT KNOWN  
Solubility In Water: NOT KNOWN  
Percent Volatiles By Volume: 51.67  
Viscosity:  
pH: N/K  
Radioactivity:  
Form (Radioactive Matl):

Magnetism (Milligauss):  
Corrosion Rate (IPY): N/K  
Autoignition Temperature:

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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/  
SOAP & WATER. REMOVE CONTAMD CLTHG. WASH CONTAMD CLTHG BEFORE RE-USE. EYE:  
FLUSH IMMED W/LG AMTS OF WATER, ESPECIALLY UNDER LIDS FOR @ LST 15 MINS. IF  
IRRIT/OTHER EFTS PERSIST, OBTAIN MED TREATMENT. (ING 12)

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Precautions for Safe Handling and Use  
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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.

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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)

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Transportation Data  
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Transportation Action Code:

Transportation Focal Point:

Trans Data Review Date:

DOT PSN Code:

DOT Symbol:

DOT Proper Shipping Name:

DOT Class:

DOT ID Number:

DOT Pack Group:

DOT Label:

DOT/DoD Exemption Number:

IMO PSN Code:

IMO Proper Shipping Name:

IMO Regulations Page Number:

IMO UN Number:

IMO UN Class:

IMO Subsidiary Risk Label:

IATA PSN Code:

IATA UN ID Number:

IATA Proper Shipping Name:

IATA UN Class:

IATA Subsidiary Risk Class:  
IATA Label:  
AFI PSN Code:  
AFI Symbols:  
AFI Prop. Shipping Name:  
AFI Class:  
AFI ID Number:  
AFI Pack Group:  
AFI Label:  
AFI Special Prov:  
AFI Basic Pac Ref:  
MMAC Code:  
N.O.S. Shipping Name:  
Additional Trans Data:

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Disposal Data  
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Disposal Data Action Code:  
Disposal Data Focal Point:  
Disposal Data Review Date:  
Rec # For This Disp Entry:  
Tot Disp Entries Per NSN:  
Landfill Ban Item:  
Disposal Supplemental Data:  
1st EPA Haz Wst Code New:  
1st EPA Haz Wst Name New:  
1st EPA Haz Wst Char New:  
1st EPA Acute Hazard New:  
2nd EPA Haz Wst Code New:  
2nd EPA Haz Wst Name New:  
2nd EPA Haz Wst Char New:  
2nd EPA Acute Hazard New:  
3rd EPA Haz Wst Code New:  
3rd EPA Haz Wst Name New:  
3rd EPA Haz Wst Char New:  
3rd EPA Acute Hazard New:

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Label Data  
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Label Required: YES  
Technical Review Date: 13OCT97  
Label Date: 13OCT97  
MFR Label Number:  
Label Status: G  
Common Name: LN-603 LIQUID NAILS, 0600301  
Chronic Hazard: YES  
Signal Word: DANGER!  
Acute Health Hazard-None:  
Acute Health Hazard-Slight:  
Acute Health Hazard-Moderate: X  
Acute Health Hazard-Severe:  
Contact Hazard-None:  
Contact Hazard-Slight: X  
Contact Hazard-Moderate:  
Contact Hazard-Severe:  
Fire Hazard-None:  
Fire Hazard-Slight:  
Fire Hazard-Moderate:



Fire Hazard-Severe: X  
Reactivity Hazard-None: X  
Reactivity Hazard-Slight:  
Reactivity Hazard-Moderate:  
Reactivity Hazard-Severe:  
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.

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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 P.O. Box:  
Label City: CLEVELAND  
Label State: OH  
Label Zip Code: 44115  
Label Country: US  
Label Emergency Number: 800-634-0015  
Year Procured: