

MATERIAL SAFETY DATA SHEET

MACCO ADHESIVES

925 EUCLID AVENUE
CLEVELAND, OHIO 44115
EMERGENCY TELEPHONE 1-800-634-0015
216-344-8049

I.D.#: 228957
The LIQUID NAILS, CONSTRUCTN #LN901
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COMPLIES WITH OSHA HAZARD COMMUNICATIONS STANDARD 29CFR1910.1200.

0631113-

PAGE 1

SECTION I

CODE IDENTIFICATION 0631113- DATE PRINTED 07/23/96
PRODUCT IDENTIFICATION LN-901, LIQUID NAILS HEAVY DUTY
CONSTRUCTION & REMODELING ADHESIVE

SECTION II-A - HAZARDOUS INGREDIENTS

CHEMICAL NAME: BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE WT. %: 5-10
COMMON NAME: STYRENE-BUTADIENE POLYMER SARA? NO
CAS NUMBER: 9003-55-8 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA): NOT EST. OSHA (TWA): NOT EST.
ACGIH (STEL): NOT EST. OSHA (STEL): NOT EST.
OSHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: CARBONIC ACID CALCIUM SALT (1:1) WT. %: 10-20
COMMON NAME: CALCIUM CARBONATE SARA? NO
CAS NUMBER: 471-34-1 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA): 10 MG/M3 OSHA (TWA): 5 MG/M3
ACGIH (STEL): NOT EST. OSHA (STEL): NOT EST.
OSHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: KAOLIN WT. %: 20-30
COMMON NAME: CLAY SARA? NO
CAS NUMBER: 1332-58-7 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA): 10 MG/M3 OSHA (TWA): 5 MG/M3
ACGIH (STEL): NOT EST. OSHA (STEL): NOT EST.
OSHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: QUARTZ WT. %: .1-1.0
COMMON NAME: QUARTZ SARA? NO
CAS NUMBER: 14808-60-7 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? YES IARC MONOGRAPH? YES 2A OSHA? NO
ACGIH (TWA): 0.1 MG/M3 OSHA (TWA): 0.1 MG/M3
ACGIH (STEL): NOT EST. OSHA (STEL): NOT EST.
OSHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC WT. %: 5-10
COMMON NAME: LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM) SARA? NO
CAS NUMBER: 64742-89-8 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA): NOT EST. OSHA (TWA): 300 PPM
ACGIH (STEL): NOT EST. OSHA (STEL): NOT EST.
OSHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: 2,2-DIMETHYLBUTANE WT. %: 1-5
COMMON NAME: SAME SARA? NO
CAS NUMBER: 75-83-2 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA): 1000 PPM OSHA (TWA): 1000 PPM
ACGIH (STEL): NOT EST. OSHA (STEL): NOT EST.
OSHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: 2,3-DIMETHYLBUTANE WT. %: 1-5
COMMON NAME: SAME SARA? NO
CAS NUMBER: 79-29-8 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA): 1000 PPM OSHA (TWA): 1000 PPM



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0631113-

PAGE 2

SECTION II-A - HAZARDOUS INGREDIENTS

ACGIH (STEL): NOT EST.
OSHA (SKIN): CEILING:

OSHA (STEL): NOT EST.
SUPP REC STD.: NOT EST.

CHEMICAL NAME: 2-METHYLPENTANE

WT. %: 10-20

COMMON NAME: SAME

SARA? NO

CAS NUMBER: 107-83-5

LD50: NOT EST.

CERCLA? NO

CARCINOGENICITY LISTED BY: NTP? NO

IARC MONOGRAPH? NO

OSHA? NO

ACGIH (TWA): 1000 PPM

OSHA (TWA): 1000 PPM

ACGIH (STEL): NOT EST.

OSHA (STEL): NOT EST.

OSHA (SKIN): CEILING:

SUPP REC STD.: NOT EST.

CHEMICAL NAME: 3-METHYLPENTANE

WT. %: 5-10

COMMON NAME: SAME

SARA? NO

CAS NUMBER: 96-14-0

LD50: NOT EST.

CERCLA? NO

CARCINOGENICITY LISTED BY: NTP? NO

IARC MONOGRAPH? NO

OSHA? NO

ACGIH (TWA): 1000 PPM

OSHA (TWA): 1000 PPM

ACGIH (STEL): NOT EST.

OSHA (STEL): NOT EST.

OSHA (SKIN): CEILING:

SUPP REC STD.: NOT EST.

SECTION II-B - OTHER INGREDIENTS

CHEMICAL NAME: RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL
COMMON NAME: ROSIN GLYCEROL ESTER
CAS NUMBER: 8050-31-5

WT. %: 1-5

CHEMICAL NAME: DISTILLATES (PETROLEUM), STEAM-CRACKED, POLYMERS
WITH LIGHT STEAM-CRACKED PETROLEUM NAPHTHA
COMMON NAME: HYDROCARBON RESIN
CAS NUMBER: 68410-16-2

WT. %: 10-20

CHEMICAL NAME: BENZENE, 1,3-DIETHENYL-, POLYMER WITH 1,3-
BUTADIENE AND ETHENYLBENZENE
COMMON NAME: STYRENE-BUTADIENE POLYMER
CAS NUMBER: 26471-45-4

WT. %: 5-10

SECTION III - PHYSICAL DATA

VAPOR PRESSURE
BOILING RANGE
%VOLATILE BY VOLUME
PHYSICAL STATE
SOLUBILITY IN WATER

NOT DETERMINED
122 - 527 F
52.79
PASTE
N

SPECIFIC GRAVITY
WEIGHT PER GALLON
COLOR
PH

1.058
8.82
TAN
NOT DETERMINED

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (SETA)

1 F

LOWER EXPLOSIVE LIMIT
UPPER EXPLOSIVE LIMIT

1.0
7.0

EXTINGUISHING MEDIA

DRY CHEMICAL OR FOAM
WATER FOG.



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0631113-

PAGE 3

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA

CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE.
VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES.
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.
VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES.
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

SPECIAL FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.
FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF EXPOSURE

INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION

IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, CONVULSIONS, LOSS OF CONSCIOUSNESS, ASPHYXIATION, DEATH.

SKIN CONTACT

IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING.

EYE CONTACT

IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDNESS OF EYES, SEVERE EYE IRRITATION.

INGESTION

INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, CONVULSIONS, PARALYSIS, CARDIAC FAILURE, DEATH.

SUPPLEMENTAL HEALTH INFORMATION

OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO KIDNEY.
MAY BE ABSORBED THROUGH SKIN.
NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED



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0631113-

PAGE 4

SECTION V - HEALTH HAZARD DATA

SUPPLEMENTAL HEALTH INFORMATION

OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.
CONTAINS CRYSTALLINE SILICA WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED CRYSTALLINE SILICA AS PROBABLY CARCINOGENIC FOR HUMANS (2A). THIS CLASSIFICATION IS BASED ON THE FINDINGS OF LABORATORY ANIMAL STUDIES THAT WERE CONSIDERED SUFFICIENT AND DATA FROM EPIDEMIOLOGICAL STUDIES THAT WERE CONSIDERED LIMITED FOR CARCINOGENICITY. CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE. NTP HAS CLASSIFIED CRYSTALLINE SILICA A REASONABLY ANTICIPATED HUMAN CARCINOGEN.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

EYE, SKIN, RESPIRATORY DISORDERS

SECTION VI - FIRST AID PROCEDURES

INHALATION REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY.

SKIN CONTACT FLUSH FROM SKIN WITH WATER. THEN WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE.

EYE CONTACT FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.

INGESTION IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

SECTION VII - REACTIVITY DATA

STABILITY STABLE

INCOMPATIBILITY OXIDIZERS, ACIDS, BASES, AMINES.

CONDITIONS TO AVOID ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT, STORAGE NEAR ACIDS, SPARKS, OPEN FLAME. IGNITION SOURCES

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, ACROLEIN, ACIDS.



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0631113-

PAGE 5

SECTION VII - REACTIVITY DATA

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.
ELIMINATE ALL SOURCES OF IGNITION.
VENTILATE AREA.
VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT.
SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS.
USE NON-SPARKING TOOLS.
EVACUATE ALL UNNECESSARY PERSONNEL.
PLACE COLLECTED MATERIAL IN PROPER CONTAINER.
COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.
LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.
SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

WASTE DISPOSAL

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. AVOID DISCHARGE TO NATURAL WATERS.

SECTION IX - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE STANDARDS. WHERE RESPIRATORY PROTECTION IS REQUIRED, USE ONLY NIOSH/MSHA APPROVED RESPIRATORS IN ACCORDANCE WITH OSHA STANDARD 29 CFR 1910.134.

VENTILATION

PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS.
USE EXPLOSION-PROOF EQUIPMENT.
USE NON-SPARKING EQUIPMENT.

PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING.



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0631113-

PAGE 6

SECTION X - SPECIAL PRECAUTIONS

HANDLING AND STORAGE

STORE BELOW 80F.
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

OTHER PRECAUTIONS

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.
KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.
KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE.
AVOID CONDITIONS WHICH RESULT IN FORMATION OF INHALABLE PARTICLES SUCH AS SPRAYING OR ABRADING (SANDING) PAINTED SURFACES. IF SUCH CONDITIONS CANNOT BE AVOIDED, USE APPROPRIATE RESPIRATORY PROTECTION AS DIRECTED UNDER SPECIAL PROTECTION INFORMATION.
EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES.
GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

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IATA NOT DETERMINED



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