

**MSDS for: LNP-903****Revised: 24-May-2005****SECTION 1:***Liquid Nails*

PRODUCT IDENTIFIER: LNP-903 HEAVY DUTY CONSTRUCTION ADHESIVE

DATE OF PREPARATION: JUNE 3, 2004

PRODUCT USE: ADHESIVE

MANUFACTURED BY: MACCO ADHESIVES  
15885 SPRAGUE RD.  
STRONGSVILLE, OHIO 44136, U.S.A.ICI PAINTS (CANADA)  
8200 KEELE STREET  
CONCORD, ONTARIO L4K 2A5, CANADA

EMERGENCY AND MSDS TELEPHONE NUMBER: 1-800-545-2643

MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT  
ICI PAINTS NORTH AMERICA**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	WT. %
CHEMICAL NAME: STYRENE BUTADIENE COPOLYMER	10-20
COMMON NAME: STYRENE BUTADIENE COPOLYMER	
CAS NUMBER: CONFIDENTIAL	
CHEMICAL NAME: LIMESTONE	10-20
COMMON NAME: LIMESTONE	
CAS NUMBER: 1317-65-3	
CHEMICAL NAME: KAOLIN	20-30
COMMON NAME: CLAY	
CAS NUMBER: 1332-58-7	
CHEMICAL NAME: QUARTZ	0.1-1.0
COMMON NAME: QUARTZ	
CAS NUMBER: 14808-60-7	
CHEMICAL NAME: DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	1-5
COMMON NAME: PETROLEUM HYDROCARBON	
CAS NUMBER: 64742-52-5	
CHEMICAL NAME: DISTILLATES (PETROLEUM), STEAM-CRACKED, POLYMERS WITH LIGHT STEAM-CRACKED PETROLEUM NAPHTHA	5-10
COMMON NAME: AROMATIC HYDROCARBON RESIN	
CAS NUMBER: 68410-16-2	
CHEMICAL NAME: WATER	20-30
COMMON NAME: WATER	
CAS NUMBER: 7732-18-5	

CHEMICAL NAME:	STODDARD SOLVENT	1-5
COMMON NAME:	MINERAL SPIRITS	
CAS NUMBER:	8052-41-3	
CHEMICAL NAME:	BENZENE,1,2,4-TRIMETHYL-	0.1-1.0
COMMON NAME:	PSEUDOCUMENE	
CAS NUMBER:	95-63-6	

### SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE: INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION

#### EFFECTS OF OVEREXPOSURE

INHALATION: IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION MAY LEAD TO DIZZINESS AND/OR LIGHtheadedness, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, SORE THROAT, CENTRAL NERVOUS SYSTEM DEPRESSION, DIFFICULTY OF BREATHING, LIVER DAMAGE, KIDNEY DAMAGE, PNEUMOCONIOSIS, LOSS OF CONSCIOUSNESS.

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, TEARING OF EYES, REDNESS OF EYES.

INGESTION: INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, MOUTH AND THROAT IRRITATION, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, DIFFICULTY OF BREATHING, PULMONARY EDEMA, CONVULSIONS, LOSS OF CONSCIOUSNESS, CYANOSIS.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

EYE, SKIN, RESPIRATORY DISORDERS, LUNG DISORDERS, RESPIRATORY DISORDERS

### SECTION 4: FIRST-AID MEASURES

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: WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. 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 5: FIRE-FIGHTING MEASURES**

FLASH POINT (SETA): ABOVE 200F/93C LOWER EXPLOSIVE LIMIT: NOT AVAILABLE  
UPPER EXPLOSIVE LIMIT: 7.0 %

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL OR FOAM. WATER FOG, CARBON DIOXIDE

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

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.

#### **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.

#### **HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS**

CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF SULFUR, ALDEHYDES, STYRENE, OXIDES OF CALCIUM, SMOKE

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

##### **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. 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.

## SECTION 7: HANDLING AND STORAGE

### HANDLING AND STORAGE

STORE BELOW 80F. STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING. STORE ABOVE 20F (-7C).

### 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. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME:	LIMESTONE	
CAS NUMBER:	1317-65-3	
ACGIH(TWA):	10 MG/M3	OSHA(TWA): 5 MG/M3
COMMON NAME:	CLAY	
CAS NUMBER:	1332-58-7	
ACGIH(TWA):	2 MG/M3	OSHA(TWA): 5 MG/M3
COMMON NAME:	QUARTZ	
CAS NUMBER:	14808-60-7	
ACGIH(TWA):	0.05MG/M3	OSHA(TWA): 0.1 MG/M3
COMMON NAME:	PETROLEUM HYDROCARBON	
CAS NUMBER:	64742-52-5	
ACGIH(TWA):	5 MG/M3	OSHA(TWA): 5 MG/M3
ACGIH(STEL):	10 MG/M3	
COMMON NAME:	MINERAL SPIRITS	
CAS NUMBER:	8052-41-3	
ACGIH(TWA):	100 PPM	OSHA(TWA): 500 PPM

### RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

### VENTILATION

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

## PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES,  
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, APRON, BOOTS

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.382
BOILING RANGE (F/C):	212-396/100-202	WEIGHT PER GALLON:	11.51/ 13.82 IMP
APPEARANCE:	TAN	%VOLATILE BY VOLUME:	39.21
PHYSICAL STATE:	PASTE	SOLUBLE IN WATER:	Y
PH:	8.00		

## SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS:	STABLE (SEE SECTION 5 FIRE FIGHTING MEASURES)
MATERIALS TO AVOID:	OXIDIZERS, ACIDS, BASES, PEROXIDES, METAL SALTS, METAL COMPOUNDS, STYRENE MONOMER
CONDITIONS TO AVOID:	ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENTS, FREEZING, SPARKS, OPEN FLAMES, IGNITION SOURCES
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR

## SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME:	STYRENE BUTADIENE COPOLYMER			
CAS NUMBER:	CONFIDENTIAL			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME:	LIMESTONE			
CAS NUMBER:	1317-65-3			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	6450.00 MG/KG ORL RAT			
COMMON NAME:	CLAY			
CAS NUMBER:	1332-58-7			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME:	QUARTZ			
CAS NUMBER:	14808-60-7			
CARCINOGENICITY LISTED BY:	NTP YES	IARC YES 1	OSHA NO	ACGIH NO
COMMON NAME:	PETROLEUM HYDROCARBON			
CAS NUMBER:	64742-52-5			
CARCINOGENICITY LISTED BY:	NTP NO	IARC YES 1	OSHA NO	ACGIH NO
LD50:	> 2000.00 MG/KG SKN RBT			
COMMON NAME:	AROMATIC HYDROCARBON RESIN			
CAS NUMBER:	68410-16-2			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO