

## SECTION 1

PRODUCT IDENTIFIER AHE60312TN0 LN-603, LIQUID NAILS ADHESIVE FOR  
PROJECTS AND CONSTRUCTION  
DATE OF PREPARATION JANUARY 8, 2001  
PRODUCT USE ADHESIVE/CAULK  
MANUFACTURED BY: MACCO ADHESIVES, 925 EUCLID AVENUE,  
CLEVELAND, OHIO 44115, 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 : COMMON NAME : CAS NUMBER :	CYCLOHEXANE CYCLOHEXANE 110-82-7	1-5
CHEMICAL NAME : COMMON NAME : CAS NUMBER :	LIMESTONE LIMESTONE 1317-65-3	5-10
CHEMICAL NAME : COMMON NAME : CAS NUMBER :	KAOLIN CLAY 1332-58-7	30-40
CHEMICAL NAME : COMMON NAME : CAS NUMBER :	QUARTZ QUARTZ 14808-60-7	1-1.0
CHEMICAL NAME : COMMON NAME : CAS NUMBER :	BENZENE, 1,3-DIETHENYL-, POLYMER WITH 1,3-BUTADIENE AND ETHENYLBENZENE STYRENE-BUTADIENE POLYMER 26471-45-4	5-10
CHEMICAL NAME : COMMON NAME : CAS NUMBER :	MINERAL OIL, HEAVY NAPHTHENIC DISTILLATE PETROLEUM HYDROCARBON 64742-52-5	5-10
CHEMICAL NAME : COMMON NAME : CAS NUMBER :	SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM) 64742-89-8	30-40
CHEMICAL NAME : COMMON NAME : CAS NUMBER :	DISTILLATES (PETROLEUM), STEAM-CRACKED, POLYMERS WITH LIGHT STEAM-CRACKED PETROLEUM NAPHTHA AROMATIC HYDROCARBON RESIN 68410-16-2	10-20
CHEMICAL NAME : COMMON NAME : CAS NUMBER :	BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE STYRENE-BUTADIENE POLYMER 9003-55-8	1-5

---

SECTION 3: HAZARDS IDENTIFICATION

---

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

EFFECTS OF OVEREXPOSURE  
INHALATION PROLONGED INHALATION MAY LEAD TO FATIGUE, DIZZINESS AND/OR LIGHTEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, CENTRAL NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECT OR NARCOSIS, 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, HEADACHE, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN, CENTRAL NERVOUS SYSTEM DEPRESSION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE  
EYE, SKIN, RESPIRATORY DISORDERS  
LUNG 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 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 5: FIRE-FIGHTING MEASURES

---

FLASH POINT (SETA) 23 F./ -5 C. LOWER EXPLOSIVE LIMIT 1.2 (%)  
UPPER EXPLOSIVE LIMIT 7.0 (%)

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

---

SECTION 5: FIRE-FIGHTING MEASURES

---

## 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.  
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, TOXIC GASES.

---

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 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.  
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. 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.  
EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES.  
GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME : CYCLOHEXANE  
CAS NUMBER: 110-82-7  
ACGIH(TWA): 300 PPM OSHA(TWA): 300 PPM

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): .05 MG/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 : LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)  
CAS NUMBER: 64742-89-8  
OSHA(TWA): 300 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. USE NON-SPARKING EQUIPMENT.

## PERSONAL PROTECTIVE EQUIPMENT

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

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: NOT AVAILABLE SPECIFIC GRAVITY: 1.125  
BOILING RANGE: 185-100F/85- 38C WEIGHT PER GALLON: 9.37/ 11.25IMP  
%VOLATILE BY VOLUME: 51.67  
PHYSICAL STATE: PASTE APPEARANCE TAN  
SOLUBILITY IN WATER: N PH: NOT AVAILABLE

---

SECTION 10: STABILITY AND REACTIVITY

---

## UNDER NORMAL CONDITIONS

STABLE

SEE SECTION 5 FIRE FIGHTING MEASURES

## MATERIALS TO AVOID

OXIDIZERS, ACIDS, BASES, AMINES.

## CONDITIONS TO AVOID

ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT, SPARKS,  
OPEN FLAME, IGNITION SOURCES.

## HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

---

SECTION 11: TOXICOLOGICAL INFORMATION

---

COMMON NAME : CYCLOHEXANE

CAS NUMBER: 110-82-7

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50:> 180.00 GM/KG SKN RBT  
LD50: 12.70 GM/KG ORL RAT  
LC50: 70.00 PPM IHL MAM

COMMON NAME : LIMESTONE

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 : LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)

CAS NUMBER: 64742-89-8

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50:> 3.16 GM/KG SKN RBT  
LD50:> 5.00 GM/KG ORL RAT

COMMON NAME : AROMATIC HYDROCARBON RESIN

CAS NUMBER: 68410-16-2

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : STYRENE-BUTADIENE POLYMER

CAS NUMBER: 9003-55-8

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

## SUPPLEMENTAL HEALTH INFORMATION

NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED  
OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN

---

SECTION 11: TOXICOLOGICAL INFORMATION

---

AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO KIDNEY.

CARCINOGENICITY CONTAINS CRYSTALLINE SILICA WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED CRYSTALLINE SILICA AS CARCINOGENIC TO HUMANS (GROUP 1). CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE. THE NATIONAL TOXICOLOGY PROGRAM (NTP) HAS CLASSIFIED CRYSTALLINE SILICA AS A KNOWN HUMAN CARCINOGEN.

REPRODUCTIVE EFFECTS NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

MUTAGENICITY NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY NO TERATOGENIC EFFECTS ARE ANTICIPATED

---

SECTION 12: ECOLOGICAL INFORMATION

---

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

---

SECTION 13: DISPOSAL CONSIDERATIONS

---

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

---

SECTION 14: TRANSPORT INFORMATION

---

DOT ADHESIVES, 3, UN1133, PGIII

IMDG ADHESIVES, CLASS 3.2, UN1133, PGIII, LIMITED QUANTITY  
ADHESIVES, CLASS 3.2, UN1133, PGIII  
COMPETENT AUTHORITY 49CFR/LTR FROM DOT 11/8/95

IATA ADHESIVES, 3, UN1133, PGIII

TDG NOT AVAILABLE

---

SECTION 15: REGULATORY INFORMATION

---

SARA SARA CERCLA HAZ AIR MARINE  
302 313 302.4 POLLUTANT POLTNT

CAS NUMBER: 110-82-7 NO YES YES NO NO  
COMMON NAME : CYCLOHEXANE

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY.