MSDS for: LN-903

Revised: 21-Jun-2010

SECTION 1:

PRODUCT IDENTIFIER: DATE OF PREPARATION: PRODUCT USE:	LN-903 LIQUID NAILS MULTIPURPOSE CONST ADHESIVE JUNE 21, 2010 ADHESIVE	IRUCTION
MANUFACTURED BY:	AKZO NOBEL 15885 WEST SPRAGUE ROAD STRONGSVILLE, OHIO 44136, U.S.A.	
	AKZO NOBEL (CANADA) 8200 KEELE STREET CONCORD, ONTARIO L4K 2A5, CANADA	
EMERGENCY AND MSDS TELEPHONE NUMBER: 1-800-545-264		1-800-545-2643

MSDS PREPARED BY:	PRODUCT SAFETY AND COMPLIANCE DEPARTMENT
	AKZO NOBEL NORTH AMERICA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT		WT. %
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	ACRYLIC RESIN ACRYLIC RESIN CONFIDENTIAL	10-20
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	POLYVINYL ACETATE COPOLYMER POLYVINYL ACETATE EMULSION CONFIDENTIAL	1-5
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	1,2-ETHANEDIOL ETHYLENE GLYCOL 107-21-1	0.1-1.0
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	LIMESTONE LIMESTONE 1317-65-3	20-30
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	KAOLIN CLAY 1332-58-7	20-30
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	TITANIUM OXIDE TITANIUM DIOXIDE 13463-67-7	0.1-1.0
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	CRISTOBALITE CRYSTALLINE SILICA, CRISTOBALITE 14464-46-1	0.1-1.0

CHEMICAL NAME: COMMON NAME: CAS NUMBER:	QUARTZ QUARTZ 14808-60-7	1-5
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	PROPANOL, OXYBIS-, DIBENZOATE DIPROPYLENE GLYCOL DIBENZOATE 27138-31-4	1-5
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	FORMALDEHYDE FORMALDEHYDE 50-00-0	< 0.01
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	WATER WATER 7732-18-5	20-30

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 HEADACHE, NAUSEA, DIFFICULTY OF BREATHING, PNEUMOCONIOSIS.
SKIN CONTACT:	IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DEFATTING.
EYE CONTACT:	IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE TEARING OF EYES, REDNESS OF EYES.

INGESTION:INGESTION MAY CAUSE MOUTH AND THROAT IRRITATION,
NAUSEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN.

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: 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: NOT AVAILABLE

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.

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, ACRYLIC MONOMERS, OXIDES OF CALCIUM

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS. VENTILATE AREA. PLACE COLLECTED MATERIAL IN PROPER CONTAINER. SPILLED MATERIAL IS EXTREMELY SLIPPERY.

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

STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING.

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 EXPOSURE CONTROLS/PERSONAL PROTECTION.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME: CAS NUMBER: ACGIH(TWA):	LIMESTONE 1317-65-3 10 MG/M3	OSHA(TWA):	5 MG/M3
COMMON NAME: CAS NUMBER: ACGIH(TWA):	CLAY 1332-58-7 2 MG/M3	OSHA(TWA):	5 MG/M3
COMMON NAME: CAS NUMBER: ACGIH(TWA):	TITANIUM DIOXIDE 13463-67-7 10 MG/M3	OSHA(TWA):	10 MG/M3
COMMON NAME: CAS NUMBER: ACGIH(TWA):	CRYSTALLINE SILICA 14464-46-1 0.025 MG/M3	, CRISTOBALITI OSHA(TWA):	E 0.05 MG/M3
COMMON NAME: CAS NUMBER: ACGIH(TWA):	QUARTZ 14808-60-7 0.025 MG/M3	OSHA(TWA):	0.1 MG/M3
COMMON NAME: CAS NUMBER: OSHA(TWA): ACGIH(STEL):	FORMALDEHYDE 50-00-0 0.75 PPM C 0.3 PPM	OSHA(STEL):	2 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.

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:	1.497
BOILING RANGE (F/C)	: 212-212/100-100	WEIGHT PER GALLON:	12.47/14.98 IMP
APPEARANCE:	WHITE	% VOLATILE BY VOLUME:	42.97
PHYSICAL STATE:	PASTE	SOLUBLE IN WATER:	YES
PH:	9.70		

SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS:	STABLE (SEE SECTION 5 FIRE FIGHTING MEASURES)
MATERIALS TO AVOID:	OXIDIZERS, ACIDS, BASES, AMMONIUM SALTS, STYRENE MONOMER
CONDITIONS TO AVOID:	FREEZING

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

	POLYVINYL ACETATE CONFIDENTIAL	E EMULSION		
CARCINOGENICITY LIS		IARC NO	OSHA NO	ACGIH NO
	LIMESTONE 1317-65-3			
CAS NUMBER: CARCINOGENICITY LIS		IARC NO	OSHA NO	ACGIH NO
LD50: 6450.00 MG/KG	ORL RAT			
	CLAY 1332-58-7			
CAS NOMBER. CARCINOGENICITY LIS		IARC NO	OSHA NO	ACGIH NO
COMMON NAME:	TITANIUM DIOXIDE			
CAS NUMBER: CARCINOGENICITY LIS	13463-67-7 TED DV: NTD VES 2D	LADC VES 2D	OSHA NO	
LD50: 24.00 GM/KG OR		IAKC YES 2B	USHA NU	ACGIH NO
LC50: 6820.00 MG/M3/4	4HR IHL RAT			
	CRYSTALLINE SILICA 14464-46-1	, CRISTOBALIT	E	
CARCINOGENICITY LIS		IARC YES 1	OSHA NO	ACGIH YES A2
	QUARTZ			
CAS NUMBER: CARCINOGENICITY LIS	14808-60-7 STED BY: NTP YES	IARC YES 1	OSHA NO	ACGIH YES A2
	DIPROPYLENE GLYCC		7	
	27138-31-4	JL DIBENZUATI	2	
CARCINOGENICITY LIS LD50: > 2000.00 MG/KG		IARC NO	OSHA NO	ACGIH NO
LD50: 4673.00 MG/KG	ORL RAT			
LC50: $> 200.00 \text{ GM/M3/}$	/4HR IHL RAT			

COMMON NAME:FORMALDEHYDECAS NUMBER:50-00-0CARCINOGENICITY LISTED BY: NTP YESLD50:100.00 MG/KG ORL RATLC50:203.00 MG/M3 IHL PIG

IARC YES 1 OSHA YES ACGIH YES A2

SUPPLEMENTAL HEALTH INFORMATION

THE MANUFACTURER OF DIPROPYLENE GLYCOL DIBENZOATE CONDUCTED TOXICITY TESTS AND FOUND DECREASED BODY WEIGHT GAIN, AND BLOOD, LIVER AND CAECUM EFFECTS IN RATS GIVEN UP TO 2500 MG/KG/DAY IN THE DIET FOR 13 WEEKS. ALL TREATMENT RELATED CHANGES SHOWED EVIDENCE OF, OR COMPLETE, RECOVERY AFTER 4 WEEKS WITHOUT TREATMENT. RELEVANCE TO HUMANS IS UNKNOWN.

CARCINOGENICITY:	CONTAINS FORMALDEHYDE, A POTENTIAL CANCER HAZARD. RATS EXPOSED TO FORMALDEHYDE VIA INHALATION DEVELOPED CANCER OF THE NASAL CAVITY. EVIDENCE IN HUMANS IS LIMITED (NASAL AND NASOPHARYNGEAL CANCER). FORMALDEHYDE IS LISTED AS A CARCINOGEN BY OSHA, PROBABLE HUMAN CARCINOGEN (GROUP 2A) BY IARC, AND A KNOWN HUMAN CARCINOGEN BY NTP. OVEREXPOSUBE CAN CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION, AND SKIN AND RESPIRATORY SENSITIZATION. 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. IN A LIFETIME INHALATION STUDY, EXPOSURE TO 250 MG/M3 TITANIUM DIOXIDE RESULTED IN THE DEVELOPMENT OF LUNG TUMORS IN RATS. THESE TUMORS OCCURRED ONLY AT DUST LEVELS THAT OVERWHELMED THE ANIMALS' LUNG CLEARANCE MECHANISMS AND WERE DIFFERENT FROM COMMON HUMAN LUNG TUMORS IN BOTH TYPE AND LOCATION. THE RELEVANCE OF THESE FINDINGS TO HUMANS IS UNKNOWN BUT QUESTIONABLE. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED TITANIUM DIOXIDE AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B) BASED ON INADEQUATE EVIDENCE OF CARCINOGENICITY IN HUMANS AND SUFFICIENT EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL ANIMALS.
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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 AKZO NOBEL PAINTS LLC ON THIS PRODUCT AS A WHOLE.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

DOT:	ADHESIVE
IMDG:	NOT AVAILABLE
IATA:	NOT AVAILABLE
TDG:	NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

	SARA 302		CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLTNT
CAS NUMBER: 50-00-0 COMMON NAME: FORMALDE		YES	YES	YES	NO

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. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

SECTION 16: OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH AKZO NOBEL PAINTS LLC BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. AKZO NOBEL PAINTS LLC SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.