MATERIAL SAFETY DATA SHEET

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 Vendor Update:
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 MSDS Number:
 LN601;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: LIQUID NAILS ADHESIVE

HMIS Ratings: NFPA Ratings:

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50				
LIMESTONE	1317-65-3	30 – 40	10 MG/M³	5 MG/M³		6450 MG/KG ORAL RAT					
Notes	CARCINOGENCITY LISTED BY: NTP: NO IARC: NO OSHA: NO ACGIH: NO										
KAOLIN (CLAY)	1332–58–7	5 – 10	2 MG/M ³	5 MG/M³							
Notes	CARCINOGENCITY LISTED BY: NTP: NO IARC: NO OSHA: NO ACGIH: NO										
QUARTZ	14808-60-7	0.1 – 1.0	0.025 MG/M ³	0.1 MG/M ³							
Notes	CARCINOGENCITY LISTED BY: NTP: YES IARC: YES 1 OSHA: NO ACGIH: YES A2										
ACRYLIC RESIN	CONFIDENTIAL	10 – 20									
Notes		1									
1,2–ETHANEDIOL	107-21-1	0.1 – 1.0									
Notes		1									
ETHANOL, 2,2'–OXYBIS–, DIBENZOATE	120-55-8	1 – 5				2830.00 MG/KG ORAL RAT					
Notes	CARCINOGENCITY LISTED BY: NTP: NO IARC: NO OSHA: NO ACGIH: NO										
TITANIUM OXIDE	1332–58–7	0.1 – 1.0	10 MG/M ³	10 MG/M³		24.00 GM/KG ORAL RAT	6820.00 MG/M3/4HR IHL RAT				
Notes	CARCINOGENCITY LISTED BY: NTP: YES 2B										

	IARC: YES 2B OSHA: NO ACGIH: NO										
CRISTOBALITE	14464-46-1	0.1 – 1.0	0.025 MG/M³	0.05 MG/M ³							
Notes	CARCINOGENCITY LISTED BY: NTP: YES IARC: YES 1 OSHA: NO ACGIH: YES A2										
WATER	7732–18–5	30 – 40									
Notes											

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE

TEARING OF EYES, REDNESS OF EYES.

Skin: IRRITATION OF SKIN.

INGESTION MAY CAUSE MOUTH AND THROAT IRRITATION, HEADACHE

NAUSEA, VOMITING, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL

PAIN, INTOXICATION, DIFFICULTY OF BREATHING, CARDIAC

ABNORMALITIES, BLOOD ABNORMALITIES, KIDNEY DAMAGE, CONVULSIONS,

CYANOSIS, BRAIN DAMAGE, CHEST EFFECTS.

Inhalation: IRRITATION OF THE RESPIRATORY TRACT. PROLONGED INHALATION MAY

HEADACHE, NAUSEA, PNEUMOCONIOSIS.

Signs and Symptoms of

Exposure:

IV. FIRST AID MEASURES

Eyes: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY

UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS

PERSIST, OBTAIN MEDICAL TREATMENT.

Skin: 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.

Ingestion: IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

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.

V. FIRE FIGHTING MEASURES

Flash Point: ABOVE 200° F (93° C)

Lower Flammability Limit: NOT AVAILABLE

Upper Flammability Limit: NOT AVAILABLE

Extinguishing Agents: DRY CHEMICAL OR FOAM, WATER FOG, CARBON DIOXIDE.

Unusual Fire or Explosion CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR

Hazards: 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.

Other: HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS: CARBON

MONOXIDE, CARBON DIOXIDE, ACRYLIC MONOMERS, OXIDES OF CALCIUM.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL

REGULATIONS. VENTILATE AREA. PLACE COLLECTED MATERIAL IN PROPER

CONTAINER. SPILLED MATERIAL IS EXTREMELY SLIPPERY.

VII. HANDLING AND STORAGE

Other: STORE BELOW 100°F (38°C). 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 VAPOURS. WASH HANDS

THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory: 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 29

CFR 1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

Engineering: PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT

BUILD-UP OF VAPORS.

Other: PERSONAL PROTECTIVE EQUIPMENT: EYE WASH, SAFETY SHOWERS, SAFETY

GLASSES OR GOGGLES. IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: WHITE

Boiling Point: NOT AVAILABLE

pH: 9.50 Solubility in Water: YES Specific Gravity: 1.456

Vapor Pressure: NOT AVAILABLE

Physical State: PASTE

Volatile Content: % VOLATILE BY VOLUME: 59.32

Other: WEIGHT PER GALLON: 12.13/14.57 IMP

X. STABILITY AND REACTIVITY

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR

Hazardous Decomposition CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, FORMALDEHYDE,

Products: OXIDES OF SULFUR, TOXIC GASES, SMOKE AND SOOT. OXIDES OF CALCIUM.

Incompatible Products: OXIDIZERS, ACIDS, AMMONIUM SALTS, STYRENE MONOMER.

Conditions To Avoid: FREEZING, SPARKS, OPEN FLAME, IGNITION SOURCES.

XI. TOXICOLOGICAL INFORMATION

Special Hazard Information:

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

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 EXPERIMENTAL ANIMALS.

REPRODUCTIVE EFFECTS: NO REPRODUCTIVE EFFECTS ARE ANTICIPATED.

MUTAGENICITY: NO MUTAGENIC EFFECTS ARE ANTICIPATED. TERATOGENICITY: NO TERATOGENIC EFFECTS ARE ANTICIPATED.

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution:

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

XIII. DISPOSAL CONSIDERATIONS

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

XIV. TRANSPORT INFORMATION

Other: IMDG: NOT AVAILABLE

IATA: NOT AVAILABLE TDG: NOT AVAILABLE.

XV. REGULATORY INFORMATION

TSCA Status: 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.

EPA Sara Title III Chemical SARA SECTION 302, 313: NO

Listings:

Other: 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.

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER

THEY ARE APPROPRIATE.