

SECTION 1:

PRODUCT IDENTIFIER: LN-933 GRANITE AND MARBLE ADHESIVE
DATE OF PREPARATION: JUNE 24, 2004
PRODUCT USE: ADHESIVE

MANUFACTURED BY: ICI PAINTS NORTH AMERICA
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8200 KEELE STREET
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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: BENZENE, 1,1'-METHYLENEBIS(4-ISOCYANATO- COMMON NAME: METHYLENE BISPHENYL ISOCYANATE CAS NUMBER: 101-68-8 | 0.1-1.0 |
| CHEMICAL NAME: BENZENE, DIMETHYL- COMMON NAME: XYLENE CAS NUMBER: 1330-20-7 | 5-10 |
| CHEMICAL NAME: TITANIUM DIOXIDE COMMON NAME: TITANIUM DIOXIDE CAS NUMBER: 13463-67-7 | 10-20 |
| CHEMICAL NAME: DISTILLATES (PETROLEUM), HYDROTREATED LIGHT COMMON NAME: HYDROTREATED LIGHT DISTILLATE CAS NUMBER: 64742-47-8 | 1-5 |
| CHEMICAL NAME: POLY(OXY(METHYL-1,2-ETHANEDIYL)),ALPHA-HYDRO- OMEGA-ETHER WITH 2-ETHYL-2-(HYDROXYMETHYL)-1,3- PROPANEDIOPOLYMER WITH ALPHA-HYDO-OMEGA- HYDROXYPOLY(OXY(METHYETHANDIYL)) AND 1,1'- METHYLENEBIS(4-ISOCYANATOBENZE COMMON NAME: POLYURETHANE POLYMER CAS NUMBER: 68130-40-5 | 30-40 |
| CHEMICAL NAME: SULFONIC ACIDS, C10-18-ALKANE, PH ESTERS COMMON NAME: SULFONIC ACIDS, C10-18-ALKANE, PH ESTERS CAS NUMBER: 70775-94-9 | 20-30 |

CHEMICAL NAME: ETHENE, CHLORO-, HOMOPOLYMER
COMMON NAME: POLYVINYL CHLORIDE
CAS NUMBER: 9002-86-2

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 LOSS OF APPETITE, MUCOUS MEMBRANE IRRITATION, FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, BLURRED VISION, COUGHING, DIFFICULTY WITH SPEECH, CENTRAL NERVOUS SYSTEM DEPRESSION, CONFUSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, TREMORS, LIVER DAMAGE, KIDNEYDAMAGE, PULMONARY EDEMA, CONVULSIONS, LOSS OF CONSCIOUSNESS, RESPIRATORY FAILURE, ASPHYXIATION, DEATH. POSSIBLE SENSITIZATION TO RESPIRATORY TRACT.

SKIN CONTACT: IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING, BLISTERING. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, CENTRAL NERVOUS SYSTEM DEPRESSION, CONFUSION, TREMORS, CONVULSIONS.

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, MUCOUS MEMBRANE IRRITATION, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, CENTRAL NERVOUS SYSTEM DEPRESSION, LIVER DAMAGE, KIDNEY DAMAGE, PULMONARY EDEMA, CONVULSIONS, DEATH.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

EYE, SKIN, 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. REMOVE TO FRESH AIR IF

INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT.

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): 104 F./ 40 C. 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 EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE. 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 NITROGEN,
HYDROGEN CHLORIDE, 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. VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. 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 100F (38C). 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: METHYLENE BISPHENYL ISOCYANATE
CAS NUMBER: 101-68-8
ACGIH(TWA): 0.005 PPM
OSHA((SKIN): CEILING: 0.02 PPM SUPP REC STD.: NOT AVAILABLE

COMMON NAME: XYLENE
CAS NUMBER: 1330-20-7
ACGIH(TWA): 100 PPM OSHA(TWA): 100 PPM
ACGIH(STEL): 150 PPM

COMMON NAME: TITANIUM DIOXIDE
CAS NUMBER: 13463-67-7
ACGIH(TWA): 10 MG/M3 OSHA(TWA): 10 MG/M3

COMMON NAME: HYDROTREATED LIGHT DISTILLATE
CAS NUMBER: 64742-47-8
ACGIH(TWA): 100PPM OSHA(TWA): 100 PPM

RESPIRATORY PROTECTION

RESPIRATORY PROTECTION IS REQUIRED FOR USE IN ISOCYANATE CONTAINING ENVIRONMENTS. CONSIDER TYPE OF APPLICATION AND ENVIRONMENTAL CONCENTRATIONS WHEN SELECTING RESPIRATORY PROTECTION. OBSERVE GOVERNMENTAL REGULATIONS FOR RESPIRATOR USE. (29 CFR 910.134(OSHA))(CANADIAN Z94.4) THE USE OF POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR IS MANDATORY WHEN THE AIRBORNE ISOCYANATE CONCENTRATIONS ARE NOT KNOWN. NOTE: ISOCYANATE BASED MATERIALS HAVE BEEN DETERMINED TO CAUSE ALLERGIC SENSITIZATION IN HUMANS. AVOID INHALATION AND DERMAL (SKIN) CONTACT WITH THE UNCURED MATERIAL.

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, FACE SHIELD

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------|----------------|----------------------|-----------------|
| VAPOR PRESSURE: | NOT AVAILABLE | SPECIFIC GRAVITY: | 1.164 |
| BOILING RANGE (F/C): | NOT AVAILABLE | WEIGHT PER GALLON: | 9.70/ 11.65 IMP |
| APPEARANCE: | WHITE | %VOLATILE BY VOLUME: | NOT DETERMINED |
| PHYSICAL STATE: | POWDER | SOLUBLE IN WATER: | N |
| PH: | NOT APPLICABLE | | |

SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS: STABLE (SEE SECTION 5 FIRE FIGHTING MEASURES)

MATERIALS TO AVOID: OXIDIZERS, ACIDS, BASES, AMINES, NITRIC ACID

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: METHYLENE BISPHENYL ISOCYANATE
CAS NUMBER: 101-68-8
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO
LD50: 2200.00 MG/KG ORL MOU

COMMON NAME: XYLENE
CAS NUMBER: 1330-20-7
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO
LD50: > 1700.00 MG/KG SKN RBT
LD50: 4300.00 MG/KG ORL RAT
LC50: 5000.00 PPM/4HRIHL RAT

COMMON NAME: TITANIUM DIOXIDE
CAS NUMBER: 13463-67-7
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO
LD50: 24.00 GM/KG ORL RAT
LC50: 6820.00 MG/M3/4HR IHL RAT

COMMON NAME: HYDROTREATED LIGHT DISTILLATE
CAS NUMBER: 64742-47-8
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: POLYURETHANE POLYMER
CAS NUMBER: 68130-40-5
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: SULFONIC ACIDS, C10-18-ALKANE, PH ESTERS
CAS NUMBER: 70775-94-9
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO
LD50: > 10.00 GM/KG ORL RAT

COMMON NAME: POLYVINYL CHLORIDE
CAS NUMBER: 9002-86-2
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED 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. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM.

CARCINOGENICITY: NO CARCINOGENIC EFFECTS ARE ANTICIPATED

REPRODUCTIVE EFFECTS: HIGH EXPOSURES TO XYLENE IN SOME ANIMAL STUDIES, OFTEN AT MATERNALLY TOXIC LEVELS, HAVE AFFECTED EMBRYO/FETAL DEVELOPMENT. THE SIGNIFICANCE OF THIS FINDING TO HUMANS IS NOT KNOWN.

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: ADHESIVE, COMBUSTIBLE LIQUID, UN1133, PGIII, ERG 128
IMDG: ADHESIVES, CLASS 3, UN1133, PGIII, LIMITED QUANTITY

IATA: CONSUMER COMMODITY, 9, ID8000
TDG: NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

| | SARA 302 | SARA 313 | CERCLA 302.4 | HAZ AIR POLLUTANT | MARINE POLTNT |
|---------------------------------------------------------------------|-------------|-------------|-----------------|----------------------|------------------|
| CAS NUMBER: 101-68-8 COMMON NAME: METHYLENE BISPHENYL ISOCYANATE | NO | YES | NO | YES | NO |
| CAS NUMBER: 1330-20-7 COMMON NAME: XYLENE | NO | 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 ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS 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.