

SEALEX, INC.
MATERIAL SAFETY DATA SHEET

IMMERBOND® SILICONE ADHESIVE SEALANT

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DATE PRINTED: 3/3/2008

===== SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION=====

SEALEX, INC.
8850 MOELLER DRIVE
HARBOR SPRINGS, MI 49740

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MSDS NO: 1003
LAST REVISED: 1/07/05

GENERIC DESCRIPTION : SILICONE
PHYSICAL FORM : PASTE
COLOR : VARIOUS STANDARD AND CUSTOM COLORS
ODOR : ETHERAL
NFPA PROFILE : HEALTH: NA; FLAMMABILITY: 1; REACTIVITY: 0

NOTE: NFPA = NATIONAL FIRE PROTECTION ASSOCIATION

===== SECTION 2. OSHA HAZARDOUS COMPONENTS=====

CAS NUMBER	WT%	COMPONENT NAME
70131-67-8	40 - 60	POLYDIMETHYLSILOXANDIOL
63148-62-9	8 - 15	POLYDIMETHYLSILOXANE
22984-54-9	2 - 5	METHYL OXIMINO SILANE
34036-80-1	0.5 - 2.5	PHENYL OXIMINO SILANE
96-29-7	< 0.5	METHYL ETHYL KETOXIME
001760-24-3	< 1.5	N-(2-AMINOETHYL)-3-AMINOPROPYLTRIMETHOXYSILANE
77-58-7	< 0.5	DIBUTYL TINDIL AURATE
64742-47-8	< 2	MINERAL SPIRITS
471-34-1	15 - 30	CALCIUM CARBONATE PRECIPITATE COATED WITH FATTY ACIDS
068909-20-6	5- 15	HEXAMETHYLDISILAZANE, SILICA REACTION PRODUCT
7429-90-5	< 2	ALUMINUM FLAKE (PIGMENT)
13463-67-7	< 2	TITANIUM DIOXIDE (WHITE PIGMENT)
1333-86-4	< 1	CARBON BLACK (BLACK PIGMENT)
1317-61-9	< 1	IRON OXIDE (BLACK PIGMENT)
51274-00-1	< 1	IRON OXIDE (YELLOW PIGMENT)
1332-37-2	< 2	IRON OXIDE (RED PIGMENT)
12068-86-9	< 1	MAGNESIUM FERRITE (BROWN PIGMENT)
1308-38-9	< 2.5	CHROMIUM OXIDE (GREEN PIGMENT)
57455-37-5	< 1.5	C.I. PIGMENT BLUE 29 (BLUE PIGMENT)

NOTE: IMMERBOND® SILICONE ADHESIVE SEALANT IS A MIXTURE OF ABOVE LISTED RAW-MATERIALS. SOME OF THE COMPONENTS ARE IN A LIQUID FORM SOME OTHERS ARE IN A POWDER FORM. THE FINAL PRODUCT HOWEVER HAS THE PHYSICAL FORM OF A PASTE. DUSTING OF FILLERS CAN NOT HAPPEN. WHEN EXPOSED TO ATMOSPHERIC HUMIDITY AND/OR WATER THIS PRODUCT WILL REACT INTO AN ELASTOMERIC RUBBERY COMPOUND.

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=====SECTION 3. EFFECTS ON OVEREXPOSURE=====

EMERGENCY OVERVIEW: UNCURED MATERIAL IS A PIGMENTED PASTE LIKE MATERIAL WITH A MILD ETHEREAL ODOR. DURING THE CURING PROCESS IT IS IRRITATING TO THE SKIN, EYES AND RESPIRATORY TRACT AND MAY CAUSE ALLERGIC SKIN REACTIONS. DETERMINED TO BE OF LOW TO MODERATE ORAL TOXICITY.

EYE: VAPOR MAY CAUSE EYE IRRITATION, DIRECT CONTACT MAY CAUSE MODERATE IRRITATION

SKIN: DIRECT CONTACT MAY CAUSE MILD IRRITATION AND / OR ALLERGIC SKIN REACTION.

EYES: CONTACT OF UNCURED MATERIAL MAY CAUSE IRRITATION.

INHALATION: VAPOR MAY IRRITATE THE RESPIRATORY TRACT AND NASAL PASSAGE. VAPORS FROM DECOMPOSITION OR EXPOSURE TO ATMOSPHERIC MOISTURE MAY PRODUCE REVERSIBLE NARCOTIC EFFECT

ORAL: LOW TO MODERATE ORAL TOXICITY. INGESTION MAY PRODUCE BLOOD EFFECTS, REDUCING THE BLOOD'S ABILITY TO TRANSPORT OXYGEN. REVERSIBLE NARCOTIC EFFECTS MAY OCCUR.

=====SECTION 4. FIRST AID MEASURES=====

EYE: BY CONTACT WITH UNCURED MATERIAL IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MIN. GET MEDICAL ATTENTION.

SKIN: BY CONTACT WITH UNCURED MATERIAL WIPE OFF MATERIAL AND WASH EFFECTED AREA, NO ADDITIONAL FIRST AID SHOULD BE NEEDED.

INHALATION: UNCURED MATERIAL REACTS WITH ATMOSPHERIC MOISTURE AND PRODUCES SMALL AMOUNTS OF METHYL ETHYL KETOXIME. BY OVEREXPOSURE MOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT GET IMMEDIATE MEDICAL ATTENTION

ORAL: GIVE TWO TO FOUR GLASSES OF WATER OR MILK AND INDUCE VOMITING. GET MEDICAL ATTENTION

===== SECTION 5. FIRE FIGHTING MEASURES =====

FLASH POINT (CLOSED CUP): NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT DETERMINED

FLAMMABILITY LIMITS IN AIR: NOT DETERMINED

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EXTINGUISHING MEDIA: CARBON DIOXIDE; WATER; WATER FOG (OR SPRAY);
DRY CHEMICAL; FOAM.

FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING
FIRES INVOLVING CHEMICALS. IF LARGE AMOUNT IS
INVOLVED, EVACUATE AREA.

UNUSUAL FIRE HAZARDS: NONE

HAZARDOUS DECOMPOSITION PRODUCTS:
THERMAL BREAKDOWN OF THIS PRODUCT DURING FIRE OR VERY HIGH HEAT
CONDITIONS MAY EVOLVE THE FOLLOWING HAZARDOUS DECOMPOSITION
PRODUCTS: SILICON DIOXIDE; CARBON OXIDE; AND TRACES OF INCOMPLETELY
BURNED CARBON CONPOUNDS; FORMALDEHYDE

===== SECTION 6. ACCIDENTAL RELEASE MEASURES =====

CONTAINMENT / CLEAN-UP:
OBSERVE PERSONAL PROTECTION EQUIPMENT RECOMMENDATIONS DESCRIBED
IN SECTIONS 5 AND 8. WIPE UP OR SCRAPE UP AND CONTAIN FOR SALVAGE OR
DISPOSAL. CLEAN AREA AS APPROPRIATE SINCE SOME SILICONE MATERIALS
MAY PRESENT A SLIP HAZARD. FINAL CLEANING MAY REQUIRE USE OF STEAM,
SOLVENTS OR DETERGENTS. DISPOSE OF SATURATED ABSORBENT OR CLEANING
MATERIALS APPROPRIATELY, SINCE SUDDEN HEATING MAY ACCUR. LOCAL,
STATE AND FEDERAL LAWS AND REGULATIONS MAY APPLY TO RELEASES AND
DISPOSAL OF THIS MATERIAL, AS WELL AS THOSE MATERIALS AND ITEMS
EMPLYED IN THE CLEAN-UP.

===== SECTION 7. HANDLING AND STORAGE =====

HANDLING:
USE WITH ADEQUATE VENTILATION. PRODUCT EVOLVES SMALL AMOUNTS OF
METHYL ETHYL KETOXIME (MEKO) WHEN EXPOSED TO WATER OR ATMOSPHERIC
MOISTURE. PROVIDE ADEQUATE VENTILATION TO CONTROL MEKO WITHIN
EXPOSURE GUIDELINES OR USE RESPIRATORY PROTECTION.

STORAGE:
STORE IN ORIGINAL UNOPENED, SEALED CONTAINER(S) AWAY FROM HEAT AND
MOISTURE. SHELF LIFE IS 12 MONTHS WHEN STORED AT ROOM TEMPERATURE
AND 50% RELATIVE HUMIDITY

===== SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION =====

ENGINEERING CONTROLS

LOCAL EXHAUST: RECOMMENDED

GENERAL VENTILATION: RECOMMENDED

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PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING

EYES: USE PROPER PROTECTION, SAFETY GLASSES AS A MINIMUM

SKIN: KEEP HANDS CLEAN, WASH AT MEALTIMES AND END OF SHIFT. IF SKIN CONTACT OCCURS, CLEAN UP IMMEDIATELY, CHANGE CONTAMINATED CLOTHING AS SOON AS POSSIBLE.

INHALATION: FOR INSIDE (ENCLOSED) APPLICATIONS USE RESPIRATORY PROTECTION UNLESS ADEQUATE LOCAL EXHAUST VENTILATION IS PROVIDED OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN RECOMMENDED EXPOSURE GUIDELINES. OUTSIDE APPLICATIONS NORMALLY PROVIDE ADEQUATE NATURAL VENTILATION.

HYGIENE MEASURES: ALWAYS WASH HANDS AFTER HANDLING AND ESPECIALLY BEFORE EATING. DO NOT EAT, DRINK, OR SMOKE WHEN HANDLING PRODUCT.

===== SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES =====

PHYSICAL FORM: PASTE (SOLID)

COLOR: VARIOUS, DEPENDANT ON CUSTOMER SPECIFICATION

ODOR: ETHEREAL (OXIM)

SPECIFIC GRAVITY @ 25C: 1.2

VISCOSITY: NOT DETERMINED

FREEZING/MELTING POINT: NOT DETERMINED

BOILING POINT: NOT APPLICABLE

VAPOR PRESSURE @ 25C: NOT APPLICABLE

VAPOR DENSITY: NOT APPLICABLE

SOLUBILITY IN WATER: NOT DETERMINED

PH: NOT DETERMINED

VOLATILE CONTENT: NOT DETERMINED

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===== SECTION 10. STABILITY AND REACTIVITY =====

CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR

CONDITIONS TO AVOID: NONE

MATERIALS TO AVOID: OXIDIZING MATERIAL CAN CAUSE A REACTION. WATER OR HUMID CONDITIONS CAN CAUSE HAZARDOUS VAPORS TO FORM AS DESCRIBED IN SECTION 7 AND 8

COMMENTS: NONE

===== SECTION 11. TOXICOLOGICAL INFORMATION =====

NOTE: MAY PRODUCE BLOOD EFFECTS, REDUCING THE BLOOD'S ABILITY TO TRANSPORT OXYGEN

SPECIAL HAZARD INFORMATION ON COMPOUNDS: SEE SECTIONS 3 AND 4

===== SECTION 12. ECOLOGICAL INFORMATION =====

NO DATA AVAILABLE AT THIS TIME

NOTE: THIS PRODUCT IS A SOLID. IT IS UNLIKELY TO CAUSE ATMOSPHERIC OR SOIL CONTAMINATION

===== SECTION 13. DISPOSAL CONSIDERATIONS =====

PRODUCT DISPOSAL: RCRA HAZARDCLASS (40 CFR 261)

WHEN A DECISION IS MADE TO DISCARD THIS MATERIAL, AS RECEIVED, IS IT CLASSIFIED AS A HAZARDOUS WASTE? NO

FEDERAL HAZARDOUS WASTE CODE: NOT APPLICABLE

CHARACTERISTIC WASTE:
IGNITABLE: NO
CORROSIVE: NO
REACTIVE: NO.

TCLP: NOT APPLICABLE

CONTAMINATED PACKAGING:
RESIDUES OF HAZARDOUS WASTE IN EMPTY CONTAINERS SHOULD BE MANAGED ACCORDING TO 40 CFR 261.7

STATE OR LOCAL LAWS MAY IMPOSE ADDITIONAL REGULATORY REQUIREMENTS.

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===== SECTION 14. SPECIAL SHIPPING INFORMATION =====

DOT INFORMATION

PROPER SHIPPING NAME: NOT APPLICABLE
HAZARD TECHNICAL NAME: NOT APPLICABLE
HAZARD CLASS: NOT APPLICABLE
UN/NA NUMBER: NONE
PACKAGING GROUP: NOT APPLICABLE
QUANTITY LIMITATIONS: NOT APPLICABLE
VESSEL STORAGE REQUIREMENTS: NOT APPLICABLE

===== SECTION 15. REGULATORY INFORMATION =====

CONTENTS OF THIS MSDS COMPLY WITH THE OSHA HAZARD COMMUNICATION
STANDARD 29 CFR 1910.1200

TSCA STATUS: ALL CHEMICAL SUBSTANCES IN THIS MATERIAL ARE INCLUDED
ON OR EXEMPTED FROM THE LISTING ON THE TSCA INVENTORY OF
CHEMICAL SUBSTANCES.

EPA SARA TITLE III CHEMICAL LISTINGS

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE

SECTION 304 CERCLA HAZARDOUS SUBSTANCES: NONE

SECTION 312 HAZARD CLASS:

ACUTE : YES

CHRONIC: YES

FIRE: NO

PRESSURE: NO

REACTIVE: NO

SUPPLEMENTAL STATE COMPLIANCE INFORMATION

WARNING: THIS PRODUCT MAY CONTAIN THE FOLLOWING CHEMICAL(S) LISTED BY
THE FOLLOWING STATES AS BEING KNOWN TO CAUSE CANCER, BIRTH
DEFECTS OR OTHER REPRODUCTIVE HARM.

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CALIFORNIA

CAS NUMBER	WT%	COMPONENT NAME
1332-37-2	< 2	IRON OXIDE (RED PIGMENT)
57455-37-5	< 1.5	C.I. PIGMENT BLUE 29 (BLUE PIGMENT)

MASSACHUSETTS

CAS NUMBER	WT%	COMPONENT NAME
471-34-1	15 – 30	CALCIUM CARBONATE
13463-67-7	< 2	TITANIUM DIOXIDE
1333-86-4	< 1	CARBON BLACK
7429-90-5	< 2	ALUMINUM

NEW JERSEY

CAS NUMBER	WT%	COMPONENT NAME
70131-67-8	40-60	POLYDIMETHYLSILOXANDIOL
63148-62-9	8-15	POLYDIMETHYLSILOXANE
77-58-7	< 0.5	DIBUTYLTINDILAURATE
471-34-1	15-30	CALCIUM CARBONATE
1333-86-4	< 1	CARBON BLACK
13463-67-7	< 2	TITANIUM DIOXIDE
7429-90-5	< 2	ALUMINUM

PENNSYLVANIA

CAS NUMBER	WT%	COMPONENT NAME
471-34-1	15-30	CALCIUM CARBONATE
1333-86-4	< 1	CARBON BLACK
70131-67-8	40-60	POLYDIMETHYLSILOXANDIOL
63148-62-9	8-15	POLYDIMETHYLSILOXANE
13463-67-7	< 2	TITANIUM DIOXIDE
1317-61-9	< 1	BLACK IRON OXIDE
7429-90-5	< 2	ALUMINUM

===== SECTION 16. OTHER 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.