

MATERIAL SAFETY DATA SHEET

"A" COMPONENT

SECTION I

MANUFACTURER: SILPAK, INC.
ADDRESS: 470 E. BONITA AVE. POMONA, CA 91767
EMERGENCY TELEPHONE #: 909-625-0056
CHEMICAL NAME AND SYNONYMS: ORGANOPOLYSILOXANE MIXTURE
TRADE NAME AND SYNONYMS: R-2374 A
CHEMICAL FAMILY: 2 PART PLATINUM SILICONE RTV
FORMULA: Proprietary Mixture

SECTION II HAZARDOUS INGREDIENTS

	CAS NUMBER
POLYVINYL SILOXANE MIXTURE	68083192
MINERAL FILLER	13983170
DIMETHY / POLYSILOXANE	63148629

SECTION III PHYSICAL DATA

BOILING POINT (F): 500F **SPECIFIC GRAVITY:** 1.25
VAPOR PRESSURE (mm Hg): 77F: NEG.
PERCENT VOLATILE BY VOLUME (%) @ 221F after 3 hrs.: <1.0 max.
VAPOR DENSITY (AIR=1): N/A
EVAPORATION RATE (ethyl ether=1): NEG.
SOLUBILITY IN WATER: N/A
APPEARANCE AND ODOR: Clear and odorless paste

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 375F
FLAMMABLE LIMITS: Not measured
EXTINGUISHING MEDIA: Foam, dry chemical, or carbon dioxide
SPECIAL FIRE FIGHTING PROCEDURES: None known
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: N/A
EFFECTS OF OVEREXPOSURE: No significant effect.
Eye contact: May cause slight irritation.
Ingestion: Induce vomiting and contact a physician.
EMERGENCY AND FIRST AID PROCEDURES: SKIN: Remove liquid from skin with a towel or dry cloth and wash exposed area with soap and water.
EYES: Immediately flush with water for at least 15 minutes. **INGESTION:** Induce vomiting.

SECTION VI REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Avoid contact with acidic, basic and oxidizing materials.
INCOMPATIBILITY (MATERIALS TO AVOID): None known
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, carbon dioxide, silicon dioxide
HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain the spill or leak, scrape up with cardboard or a rag and place in a container.

WASTE DISPOSAL METHOD: In accordance with Federal, State and Local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not required
PROTECTIVE GLOVES: Cloth gloves.
EYE PROTECTION: Safety glasses
OTHER PROTECTIVE EQUIPMENT: None known

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP CONTAINER CLOSED. STORE IN A COOL PLACE AND KEEP AWAY FROM HEAT OR FLAME. DON'T LAY CONTAINER ON ITS SIDE.
NFPA : HEALTH = 1, FIRE = 0, REACTIVITY = 0, STABILITY = 0
TSCA STATUS : All chemical substances found in this product comply with the toxic substance control act inventory.
CALIFORNIA PROP 65 - NOT LISTED
Transportation Dot: Non- Hazardous

OTHER PRECAUTIONS: NONE KNOWN

"B" COMPONENT

SECTION I

CHEMICAL NAME AND SYNONYMS: ORGANOPOLYSILOXANE MIXTURE
TRADE NAME AND SYNONYMS: R-2374 B
CHEMICAL FAMILY: TWO PART SILICONE
FORMULA: Proprietary Mixture

SECTION II HAZARDOUS INGREDIENTS

	CAS NUMBER
POLYVINYL MIXTURE	68083192
SILOXANE PIGMENT	N/A
METHAL HYDROGEN POLYSILOXANE	63148572

SECTION III PHYSICAL DATA

BOILING POINT (F): >500F, >260C **SPECIFIC GRAVITY:** 1.00
VAPOR PRESSURE (mm Hg.)@ 77F: NEG.
PERCENT VOLATILE BY VOLUME: <1%
SOLUBILITY IN WATER: INSOLUBLE
VAPOR DENSITY (AIR=): N/A **EVAPORATION RATE:** N/A
APPEARANCE & ODOR: SLIGHTLY SOLVENT ODOR, COLOR PER CUSTOMERS REQUEST

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 201F. MIN. (OPEN CUP)
FLAMMABLE LIMITS: NOT MEASURED
EXTINGUISHING MEDIA: FOAM, WATER OR CARBON DIOXIDE; DO NOT USE DRY CHEMICAL EXTINGUISHERS PARTICULARLY FOR WELL DEVELOPED FIRES, IS BEST DONE WITH AFFF ALCOHOL COMPATIBLE FOAM.
SPECIAL FIRE FIGHTING PROCEDURES: NONE
UNUSUAL FIRE AND EXPLOSION HAZARDS: PREVENT CONTACT WITH ACIDIC, BASIC OR OXIDIZING MATERIALS WHICH WILL CAUSE FLAMMABLE VAPORS.
SPECIAL FIRE FIGHTING PROCEDURES: NONE

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: N/A
EFFECTS OF OVEREXPOSURE: SKIN CONTACT: NO SIGNIFICANT EFFECT.
EYE CONTACT: MAY CAUSE MILD IRRITATION.
EMERGENCY AND FIRST AID PROCEDURE :
EYES : IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES, CALL PHYSICIAN AND GET MEDICAL ATTENTION IF IRRITATION PERSIST. **SKIN :** REMOVE FROM SKIN WITH A DRY CLOTH, THEN WASH WITH SOAP AND WATER.

SECTION VI REACTIVITY DATA

STABILITY : STABLE
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, SILICON DIOXIDE, HYDROGEN
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
INCOMPATIBILITY: AVOID CONTACT WITH ACIDIC, BASIC AND OXIDIZING AGENTS
CONDITIONS TO AVOID: PRODUCT GENERATES FLAMMABLE GAS ON CONTACT WITH ACIDIC, BASIC AND OXIDIZING MATERIALS

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CONTAIN THE SPILL OR LEAK. SCRAPE UP WITH CARDBOARD OR RAG AND PLACE IN A CONTAINER. WASTE DISPOSAL METHOD: DISPOSE OF ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE REQUIRED
VENTILATION: LOCAL EXHAUST-NONE REQUIRED
PROTECTIVE GLOVES: CLOTH GLOVES
EYE PROTECTION: SAFETY GLASSES
OTHER PROTECTIVE EQUIPMENT: NONE REQUIRED

SECTION IX SPECIAL PRECAUTION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP CONTAINER CLOSED. STORE IN A COOL PLACE (BELOW 85F 30C.). DO NOT REUSE THIS CONTAINER.
NFPA : HEALTH = 0, FIRE = 1, REACTIVITY = 0, STABILITY = 0
TSCA STATUS : All chemical substances found in this product comply with the toxic substance control act inventory.
CALIFORNIA PROP 65 - NOT LISTED
Transportation Dot: Non- Hazardous

OTHER PRECAUTIONS: WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM FLAME AND HEAT. KEEP CONTAINER CLOSED WHEN NOT IN USE TO PREVENT CONTACT WITH ACIDIC, BASIC OR OXIDIZING MATERIALS WHICH WILL CAUSE FLAMMABLE VAPORS.

PREPARED BY: PHILIP J. GALARNEAU 06-08-08

SILPAK, INC.

DIST. BY MCMMASTER-CARR

R-2374 A/B

Product Data Sheet

ROOM TEMPERATURE HEAT CURE SILICONE

INTRODUCTION:

R-2374 A/B is a two-part silicone rubber designed for tool hardness, physical properties and chemical resistance. R-2374 A/B has excellent high tear and tensile properties; typical applications would be relief type molds because of its firmness and molds with deep undercuts, which are tough to de-mold.

PHYSICAL PROPERTIES (TYPICAL VALUES):

Uncured Compound	Cured Compound
Color: "A" Tan/"B" Blue	
Mixed Color: Royal Blue	24 hrs. @ 77F (25C)
Viscosity @ R.T.: mixed 90,000 cps	Specific Gravity: 1.28
Mixing Ratio A/B: 100/10	Shore A Hardness: 65
Shelf Life: 6 months	Elongation % 150
Tensile Strength (PSI): 710	Tear Strength (PSI): 95
Coefficient of Thermal Expansion (cm/cm/c) 8.4×10^{-4}	
Shrinkage: (48 hrs@ 77f) 0.001 inch/inch	
Service Temperature : -70F to 400+ F	
Work Time: 2 hrs	
Cure Time: 16- 24	Coverage: 21 cubic / inch / lb

CONDITIONS OF TEST:

Post cure of 1 hour @ 400F after room temperature cure 24 hours.

MIXING INSTRUCTIONS:

The base and curing agent are mixed just before using. Mix 100 parts base to 10 part curing agent by weight. Automatic mixing equipment or manual mixing may be used to combine base and curing agent. Immediately after mixing, place the material in a vacuum chamber to remove trapped air. As the vacuum is drawn, the material will expand as much as four times its original volume. Remove from vacuum chamber. Cure may be accelerated with mild heat 100f to 150f. Thickness and heat saturation Will determine length of time to cure.

Note - If settling should occur at the bottom of your container do not mix into material manually. Please call for further instructions.

THE INFORMATION AND DATA CONTAINED HEREIN ARE BASED ON INFORMATION WE BELIEVE RELIABLE. EACH USER OF THE MATERIAL SHOULD THOROUGHLY TEST ANY APPLICATION AND INDEPENDENTLY CONCLUDE SATISFACTORY PERFORMANCE BEFORE COMMERCIALIZING. SUGGESTIONS OF USES SHOULD NOT BE TAKEN AS INDUCEMENTS TO INFRINGE ON ANY PARTICULAR PATENT.