

MATERIAL SAFETY DATA SHEET

PROJECT 1™ 6000 SERIES SILICONE SEALANT

FILE NO.: 6000
MSDS DATE: 12 /20/2007

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PROJECT 1™ GENERAL PURPOSE SILICONE ADHESIVE/SEALANT
PRODUCT CODES: 6001, 6002, 6004, 6005, 6007, 6009, 6501, 6502, 6505, 6507, 6508

MANUFACTURER: HI TEC INDUSTRIES
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BLOOMINGTON, IN 47401

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CHEMICAL NAME: SILICONE ELASTOMER
PHYSICAL FORM: PASTE
ODOR: ACETIC ACID

NFPA PROFILE: HEALTH 2 FLAMMABILITY 1 INSTABILITY/REACTIVITY 0

PREPARED BY: HI TEC INDUSTRIES

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS NO.</u>	<u>% WT</u>	<u>INGREDIENT</u>
64742-46-7	<=26.0	HYDROTREATED MIDDLE PETROLEUM DISTILLATES
4253-34-3	<=2.0	METHYLTRIACETOXYSILANE
17689-77-9	<=2.0	ETHYLTRIACETOXYSILANE
PMN871176	<=2.0	DIMETHYL SILOXANE, TRIMETHOXSILYL-TERMINATED

THE ABOVE COMPONENTS ARE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: EYE, SKIN, INHALATION, INGESTION

POTENTIAL HEALTH EFFECTS

ACUTE EFFECTS

EYES: DIRECT CONTACT MAY CAUSE MODERATE IRRITATION

SKIN: MAY CAUSE MODERATE IRRITATION

INGESTION: MAY CAUSE VOMITING

INHALATION: MATERIAL IS NOT LIKELY TO PRESENT AN INHALATION HAZARD AT AMBIENT CONDITIONS. HOWEVER, IF MATERIAL IS HEATED OR HIGH VAPOR CONCENTRATION IS ATTAINED, CENTRAL NERVOUS SYSTEM DEPRESSION MAY OCCUR, WHICH IS CHARACTERIZED BY DROWSINESS, DIZZINESS, CONFUSION, OR LOSS OF COORDINATION.

PROLONGED/CHRONIC EXPOSURE EFFECTS

SKIN: REPEATED OR PROLONGED CONTACT MY CAUSE DEFATTING AND DRYING OF SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

INHALATION: NO KNOWN APPLICABLE INFORMATION

INGESTION: NO KNOW APPLICABLE INFORMATION

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NO KNOWN APPLICABLE INFORMATION

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SECTION 3 NOTES: The above listed potential effect of overexposure are based on actual data, results of studies performed upon Similar compositions, componenet data, and /or expert review of the product. Details on relevant toxicology information referenced in Section 9.

SECTION 4: FIRST AID MEASURES

EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION

SKIN: REMOVE FROM SKIN AND WASH THOROUGHLY WITH SOAP AND WATER OR WATERLESS CLEANER. GET MEDICAL ATTENTION IF IRRITATION OR OTHER ILL EFFECTS DEVELOP OR PERSIST.

INGESTION: GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

INHALATION: MATERIAL IS NOT LIKELY TO PRESENT AN INHALATION HAZARD AT AMBIENT CONDITIONS.
IF MATERIAL IS HEATED OR HIGH VAPOR IS GENERATED, CARE SHOULD BE TAKEN TO PREVENT INHALATION. IN CASE OF EXPOSURE TO VAPOR, MOVE TO FRESH AIR.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFICS OF EXPOSURE.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: NOT DETERMINED

FLASH POINT:

F: > 212°

C: >100°

METHOD USED: CLOSED CUP

AUTOIGNITION TEMPERATURE: NOT DETERMINED

EXTINGUISHING MEDIA: ON LARGE FIRES USE DRY CHEMICAL, FOAM, OR WATER SPRAY. ON SMALL FIRES USE CARBON DIOXIDE (CO₂), DRY CHEMICAL OR WATER SPRAY. WATER CAN BE USED TO COOL FIRE EXPOSED CONTAINERS.

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING LARGE FIRES INVOLVING CHEMICALS. DETERMINE THE NEED TO EVACUATE OR ISOLATE THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN. USE WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

OBSERVE ALL PERSONAL PROTECTION EQUIPMENT RECOMMENDATIONS DESCRIBED IN SECTION 5 AND 8. WIPE UP OR SCRAPE UP AND CONTAIN FOR SALVAGE OR DISPOSAL. CLEAN AREA AS APPROPRIATE SINCE SPILLED MATERIALS, EVEN IN SMALL QUANTITIES, MAY PRESENT A SLIP HAZARD. FINAL CLEANING MAY REQUIRE USE OF STEAM, SOLVENTS, OR DETERGENTS. DISPOSE OF SATURATED ABSORBANT OR CLEANING MATERIALS APPROPRIATELY, SINCE SPONTANEOUS HEATING MAY OCCUR. LOCAL, STATE, AND FEDERAL LAWS AND REGUALTIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS MATERIAL AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN THE CLEANUP OF RELEASES. YOU WILL NEED TO DETERMINE WHICH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS ARE APPLICABLE. SECTIONS 13 AND 15 OF THIS MSDS PROVIDE INFORMATION REGARDING CERTAIN FEDERAL AND STATE REQUIREMENTS.

SECTION 6 NOTES: SEE SECTION 8 FOR PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS.

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: USE WITH ADEQUATE VENTILATION. PRODUCT EVOLVES ACETIC ACID (HOAc) WHEN EXPOSED TO WATER OR HUMID AIR. PROVIDE VENTILATION DURING USE TO CONTROL HOAc WITHIN EXPOSURE GUIDELINES OR USE RESPIRATORY PROTECTION. AVOID EYE CONTACT. AVOID SKIN CONTACT. AVOID BREATHING VAPOR, MIST, DUST, OR FUMES. KEEP CONTAINER CLOSED. DO NOT TAKE INTERNALLY.

OTHER PRECAUTIONS: USE REASONABLE CARE AND STORE AWAY FROM OXIDIZING MATERIALS. KEEP CONTAINERS CLOSED AND STORE AWAY FROM WATER OR MOISTURE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

VENTILATION : RECOMMENDED

RESPIRATORY PROTECTION:

NOT NEEDED UNDER AMBIENT CONDITIONS. IF VAPOR IS GENERATED WHEN MATERIAL IS HEATED OR HANDLED, THE FOLLOWING IS ADVISED: GENERAL AND LOCAL EXHAUST VENTILATION IS RECOMMENDED TO MAINTAIN VAPOR EXPOSURES BELOW RECOMMENDED LIMITS. WHERE CONCENTRATIONS ARE ABOVE RECOMMENDED LIMITS OR ARE UNKNOWN, APPROPRIATE RESPIRATORY PROTECTION SHOULD BE WORN. FOLLOW OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) AND USE NIOSH/MSHA APPROVED RESPIRATORS.

EYE PROTECTION: USE PROPER PROTECTION- SAFETY GLASSES AS A MINIMUM. FOR SPILLS, FULL FACE RESPIRATOR.

SKIN PROTECTION: WASH AT MEALTIME AND END OF SHIFT. CONTAMINATED CLOTHING AND SHOES SHOULD BE REMOVED AS SOON AS PRACTICAL AND THOROUGHLY CLEANED BEFORE REUSE. CHEMICAL PROTECTIVE GLOVES RECOMMENDED: BUTYL RUBBER. NEOPRENE RUBBER ®. NITRILE RUBBER.

WORK HYGIENIC PRACTICES: AVOID EYE CONTACT. AVOID SKIN CONTACT. AVOID BREATHING VAPOR, MIST, DUST, OR FUMES. KEEP CONTAINERS CLOSED. DO NOT TAKE INTERNALLY. USE REASONABLE CARE.

EXPOSURE GUIDELINES:

<u>CAS NUMBER</u>	<u>COMPONENT NAME</u>	<u>EXPOSURE LIMITS</u>
64742-46-7	HYDROTREATED MIDDLE PETROLEUM DISTILLATES	OSHA PEL (final rule) AND ACGIH TLV FOR OIL MISTS: TWA 5 mg/m3
4253-34-3	METHYLTRIACETOXYSILANE	SEE ACETIC ACID COMMENTS
17689-77-9	ETHYLTRIACETOXYSILANE	SEE ACETIC ACID COMMENTS

ACETIC ACID IS FORMED UPON CONTACT WITH WATER OR HUMID AIR. PROVIDE ADEQUATE VENTILATION TO CONTROL EXPOSURES WITHIN GUIDELINES OF OSHA PEL: TWA 10 ppm AND ACHIH TLV: TWA 10ppm, STEL 15 ppm.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

ODOR: VINEGAR-LIKE (ACETIC ACID) SMELL

PHYSICAL STATE: PASTE

pH AS SUPPLIED: NOT DETERMINED

BOILING POINT: > 100°C

MELTING POINT/FREEZING POINT: NOT DETERMINED

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VAPOR PRESSURE (mmHg): NOT DETERMINED

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

VAPOR DENSITY (AIR = 1): NOT DETERMINED

SPECIFIC GRAVITY (H₂O = 1): 0.96

SOLUBILITY IN WATER: NOT DETERMINED

VOLATILE ORGANIC COMPOUNDS (VOC):

EXCLUSIVE OF WATER: 29g/L

VISCOSITY: 200,000 mPa s

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIAL TO AVOID):

OXIDIZING MATERIAL CAN CAUSE A REACTION. WATER, MOISTURE, OR HUMID AIRE CAN CAUSE HAZARDOUS VAPORS TO FORM AS DESCRIBED IN SECTION 8.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

THERMAL BREAKDOWN OF THIS PRODUCT DURING FIRE OR VERY HIGH HEAT CONDITIONS MAY EVOLVE THE FOLLOWING DECOMPOSITION PRODUCTS: CARBON OXIDES AND TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS. SILICON DIOXIDE. FORMALDEHYDE. METAL OXIDES. SULFUR OXIDES. NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS TO AVOID (POLYMERIZATION): NONE

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: NO KNOWN APPLICABLE INFORMATION

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION: Complete Information Not Available

ENVIRONMENTAL EFFECTS: Complete Information is Not Yet Available

FATE AND EFFECTS IN WASTE WATER TREATMENT PLANTS: Complete Information is Not Yet Available

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	<1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment". ASTM STP 1179, p.34, 1993

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This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS (40 CFR 261)

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES: When a decision is made to discard this material, as received, is it classified as a hazardous waste? NO

Check State and Local laws for additional regulatory requirements regarding disposal.

SECTION 14: TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory of Chemical Substances.

Section 304 CERCLA Hazardous Substances (40 CFR 302): None

EPA SARA TITLE III: Section 302 Extremely Hazardous Substances (40 CFR 355): None

311/312 HAZARD CLASS (40 CFR 370):

Acute:: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

313 REPORTABLE INGREDIENTS:

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
69991-68-0	<=1.5	Antimony chromium manganese titanium brown rutile

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

STATE REGULATIONS:

CALIFORNIA

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproduction harm. **None Known.**

MASSACHUSETTS

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
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7631-86-9	<=8.0	Silica, amorphous
1333-86-4	<=2.0	Carbon Black
1309-37-1	<=1.8	Iron oxide
13463-67-7	<=1.6	Titanium dioxide
58-36-6	0.1	10, 10-Oxydiphenoxarsine

SECTION 15: Continued

NEW JERSEY

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
69991-68-0	<=1.5	Antimony chromium manganese titanium brown rutile
70131-67-8	<=64.0	Dimethyl siloxane, hydroxyl-terminated
64742-46-7	<=26.0	Hydrotreated middle petroleum distillates
7631-86-9	<=8.0	Silica, amorphous
63148-62-9	<=3.0	Polydimethylsiloxane
4253-34-3	<=2.0	Methyltriacetoxysilane
17689-77-9	<=2.0	Ethyltriacetoxysilane
1333-86-4	<=2.0	Carbon Black
PMN871176	<=2.0	Dimethyl siloxane, trimethoxysilyl-terminated
1309-37-1	<=1.8	Iron oxide
13463-67-7	<=1.6	Titanium dioxide
69991-68-0	<=1.5	Antimony chromium manganese titanium brown rutile

PENNSYLVANIA

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
70131-67-8	<=64.0	Dimethyl siloxane, hydroxyl-terminated
64742-46-7	<=26.0	Hydrotreated middle petroleum distillates
7631-86-9	<=8.0	Silica, amorphous
63148-62-9	<=3.0	Polydimethylsiloxane
1333-86-4	<=2.0	Carbon Black
1309-37-1	<=1.8	Iron oxide
13463-67-7	<=1.6	Titanium dioxide
69991-68-0	<=1.5	Antimony chromium manganese titanium brown rutile

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: Prepared by HI TEC Industries, Inc

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DISCLAIMER:

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These data are offered in good faith as typical values and not as product specifications. No warranty, either 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.

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