

# MATERIAL SAFETY DATA SHEET

Project 1™ Neutral Cure

FILE NO.: 6700 Series  
MSDS DATE: August 23, 2011

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Project 1™ Neutral Silicone Sealant  
PRODUCT CODES: 6705 Clear, 6707 White, 6702 Black

MANUFACTURER: HI TEC Industries  
ADDRESS: 6100 S Fairfax Rd, Bloomington, IN 47401

EMERGENCY PHONE: 800-457-1313  
OTHER CALLS: 812-824-8000  
FAX PHONE: 812-824-8185

CHEMICAL NAME: Oxime Silicone Elastomer  
CHEMICAL FAMILY: Silicone  
CHEMICAL FORMULA: Oxime Curing System

PREPARED BY: HI TEC Industries

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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<u>CAS NO.</u>	<u>% WT</u>	<u>INGREDIENT</u>	<u>SARA 313 REPORTABLE</u>
96-29-7	<0.5	Methyl ethyl ketoxime	No
22984-54-9	<3.0	Methyl Tri(ethylmethylketoxime) silane	No
1760-24-3	<2.0	Aminoethylaminopropyltrimethoxysilane	No

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## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** The potential effects of overexposure listed below are based on actual data, results of studies performed upon similar compositions, component data and /or expert review of the product. For toxicology information, refer to section 11.

**ROUTES OF ENTRY:** Eyes, Skin, Inhalation, Ingestion

### POTENTIAL HEALTH EFFECTS

**EYES:** Direct contact may cause moderate irritation

**SKIN:** May cause moderate irritation

**INGESTION:** Low ingestion hazard in normal use

**INHALATION:** Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness.

### Prolonged/Repeated Exposure Effects:

**Skin:** Overexposure may injure internally if absorbed.

**Inhalation:** Overexposure by inhalation may injure the following organ(s): Blood, Liver

**Oral:** Repeated ingestion or swallowing large amounts may injure internally.

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Immediately flush with water for 15 minutes. Get medical attention.

**SKIN:** Remove from skin immediately with paper towel and flush with water or water and soap for 15 minutes. Get medical attention if irritation or other ill effect develop or persist.

**INGESTION:** Get medical attention.

**INHALATION:** Remove to fresh air. Get medical attention if ill effects persist.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Treat according to person's condition and specifics of exposure.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR, UPPER:** N/A  
**(% BY VOLUME) LOWER:** N/A

**FLASH POINT:**

F: N/A  
C: N/A

**AUTOIGNITION TEMPERATURE:** N/A

F: N/A  
C: N/A

**EXTINGUISHING MEDIA:** On large fires, use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), 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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Nitrogen oxides.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**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 absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations 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.

**CAUTION:** See section 8 for Personal Protective Equipment for Spills. For additional information call the numbers provided in section 1.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Use with adequate ventilation. Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines or use respiratory protection. Traces of benzene (carcinogen) may form if heated in air above 300°F. Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. Avoid eye contact. Avoid skin contact. Do not take internally. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Keep away from children.

Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture protecting from freezing in the temperature not higher than 86°F.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS:

**VENTILATION:** General and Local ventilation recommended.

**RESPIRATORY PROTECTION:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respiratory protection is not needed under ambient conditions. If vapor/mist/dust/fumes are 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. Respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. For spills, protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**EYE PROTECTION:** Use proper protection-at least safety glasses. For spills, use 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 clean before reuse. Chemical protective gloves are recommended. For hands, use protective gloves made from Butyl Rubber, Neoprene Rubber, Nitrile Rubber. Follow these protective procedures for spills as well.

### EXPOSURE GUIDELINES:

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Exposure limits</u>
Methyl tri(ethylmethylketoximo)silane	22984-54-9	See MEKO comments
Aminoethylaminopropyltrimethoxysilane	1760-24-3	See methyl alcohol comments

Methyl ethyl ketoxime is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within the following exposure guidelines:

Vendor Guide TWA: 3ppm; STEL: 10ppm; AIHA WEEL TWA: 10ppm

Methyl alcohol forms on contact with water and humid air. Provide adequate ventilation to control exposures: OSHA PEL: TWA: 200ppm; ACGIH TLV-skin: TWA 200ppm; STEL 250ppm.

**Section 8 Notes:** Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines or use respiratory protection. Traces of benzene (carcinogen) may form if heated in air above 300°F. Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements.

**Note:** These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**Color:** Clear, White, other custom

**ODOR:** Some Odor

**PHYSICAL STATE:** Paste

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pH AS SUPPLIED: Not determined

pH (Other):

BOILING POINT: Not determined

F:

C:

MELTING POINT: Not determined

F:

C:

FREEZING POINT: Not determined

F:

C:

VAPOR PRESSURE (mmHg):

@

F:

C: 25° 0.1 kPa

VAPOR DENSITY (AIR = 1): 3

SPECIFIC GRAVITY (H2O = 1):

@

F:

C: 25° 1.00 g/cm<sub>3</sub>

DECOMPOSITION TEMPERATURE: >392°F

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

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SOLUBILITY IN WATER: Not soluble

PERCENT VOLATILE: Not determined

BY WT/ BY VOL @

F:

C:

SECTION 9 NOTES: The above information is not intended for use in preparing specifications.

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## SECTION 10: STABILITY AND REACTIVITY

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STABLE

UNSTABLE

STABILITY: Yes

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.

HAZARDOUS POLYMERIZATION: Upon contact with humidity, polymerization occurs. During polymerization, methyl ethyl ketoxime (MEKO) occurs.

CONDITIONS TO AVOID (POLYMERIZATION): Moisture in any form.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:** Contains methyl ethyl ketoxime (MEKO). Male rodents exposed to MEKO vapor throughout their lifetime developed liver cancer. Additional testing is planned by the MEKO supplier to determine any relevance to humans. Until more data is obtained, exposure levels should be maintained as low as possible.

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** Complete information is not available. Does not biodegrade. Do not dispose to sewage system, surface and ground waters. Product can be easily separated from water through filtration.

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

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### WASTE DISPOSAL METHOD:

**RCRA HAZARD CLASS (40 CFR 261):** When discarding this material, as received, it is not classified as a hazardous waste. State or local laws may impose additional regulatory requirements regarding disposal. Call the number provided in section 1, if additional information is required.

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## SECTION 14: TRANSPORT INFORMATION

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**U.S. DOT** Not required  
PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENT:

**WATER TRANSPORTATION (IMDG)** Not required  
PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:

**AIR TRANSPORTATION (IATA)** Not required  
PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:

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## SECTION 15: REGULATORY INFORMATION

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### 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 Controlled Substances.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

311/312 HAZARD CATEGORIES: Acute-Yes Chronic-Yes Fire-No Pressure-No Reactive-No

313 REPORTABLE INGREDIENTS: None present or none present in regulated quantities

Regulatory VOC: 1.8 g/l

### STATE REGULATIONS:

#### California:

Warning: This product contains the following chemical(s) listed in 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 reproductive harm.

#### NONE KNOWN

#### Massachusetts:

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
7631-86-9	3.0-9.0	Silica, amorphous
13463-67-7	<=2.0	Titanium Dioxide

#### New Jersey:

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
70131-67-8	<60%	Polydimethylsiloxane, hydroxyl-terminated
7631-86-9	3.0-9.0	Silica, amorphous
22984-54-9	<3.0	Methyl tri(methylketoximo)silane
13463-67-7	<=2.0	Titanium Dioxide

#### Pennsylvania:

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
70131-67-8	<60%	Polydimethylsiloxane, hydroxyl-terminated
7631-86-9	3.0-9.0	Silica, amorphous
22984-54-9	<3.0	Methyl tri(methylketoximo)silane
13463-67-7	<=2.0	Titanium Dioxide

**SECTION 15 NOTES:** Contents of this MSDS comply with the OSHA Hazard Communications Standard 29 CFR 1910.1200

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## SECTION 16: OTHER INFORMATION

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All information, recommendation or advice contained in this document or given by HI TEC Industries, it's affiliates, or authorized representatives, whether written or oral, is given in good faith, to the best of its knowledge and based on current procedure in effect. Each user of the product shall convince himself, through all available sources (including finished product testing in its appropriate environment) of the suitability of the product supplied for its own particular purpose. HI TEC Industries, it's affiliates, or authorized agents cannot be held responsible for any loss incurred through incorrect or faulty use of the product. The Material Safety Data Sheet related exclusively to the described product. In case of applying it as a component of another product, the MSDS is invalid.

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