

# MATERIAL SAFETY DATA SHEET

Project 1™ Black Poly Foam

FILE NO.: 2402  
MSDS DATE: 01 /16 / 08

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Project 1™ Black Poly Foam  
**PRODUCT CODES:** 2402

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

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

**CHEMICAL NAME:** Polyurethane Foam, gun grade

**PRODUCT USE:** Cavity Filler, Sealing in Industrial and Construction applications  
**PREPARED BY:** HI TEC Industries

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>
Diphenylmethanediisocyanate, isomers, and homologues	9016-87-9	40-50%
Dimethyl ether	115-10-6	1-10%
Petroleum gases	68476-85-7	1-10%

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## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** HARMFUL  
EXTREMELY FLAMMABLE

**ROUTES OF ENTRY:** EYES, SKIN, INHALATION, INGESTION

### POTENTIAL HEALTH EFFECTS

**EYES:** IRRITATING TO EYES. FOAM HAS ADHESIVE PROPERTIES. IF SPRAYED IN EYES, COULD CAUSE PHYSICAL DAMAGE.

**SKIN:** MAY IRRITATE SKIN, REDDENING OR SWELLING MAY OCCUR. PROLONGED EXPOSURE MAY LEAD TO SENSITIZATION, BLISTERING, AND/OR DERMATITIS.

**INGESTION:** HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF MUCOUS MEMBRANES IN STOMACH AND DIGESTIVE SYSTEM.

**INHALATION:** HARMFUL IF INHALED. ALLERGIC ASTHMA SYMPTOMS MAY OCCUR. WHEEZING, COUGHING OR TIGHTNESS IN CHEST SUGGEST IRRITATION. OVEREXPOSED PERSONS MAY DEVELOP SYMPTOMS OF BRONCHITIS OR PULMONARY EDEMA.

OVEREXPOSURE TO GASES MAY CAUSE DIZZINESS, HEADACHES, OR SLUGGISHNESS. CARDIAC ARRHYTHMIA CONDITION MAY WORSEN WITH EXPOSURE.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** NOT KNOWN

**SECTION 3 NOTES:** CONTAINS ISOCYANATES. SEE INFORMATION IN SECTION 8. CONTAINER IS PRESSURIZED. PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 122°F (50°C). DO PIERCE OR BURN, EVEN WHEN EMPTY. KEEP OUT OF REACH OF CHILDREN.

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## SECTION 4: FIRST AID MEASURES

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**EYES:** RINSE OPEN EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. IF SYMPTOMS PERSIST, CONSULT DOCTOR.

**SKIN:** IMMEDIATELY WASH WITH WATER AND SOAP AND RINSE THOROUGHLY.

**INGESTION:** DO NOT INDUCE VOMITING. DRINK 1-2 GLASSES OF MILK OR WATER. IF SYMPTOMS PERSIST, CONTACT A PHYSICIAN.

**INHALATION:** SUPPLY FRESH AIR AND CALL PHYSICIAN. IN CASE OF UNCONSCIOUSNESS, PLACE PATIENT IN SIDE POSITION FOR TRANSPORTATION.

**SECTION 4 NOTES:** SYMPTOMS OF POISONING MAY CONTINUE TO OCCUR FOR SEVERAL HOURS. MEDICAL OBSERVATION RECOMMENDED FOR AT LEAST 48 HOURS AFTER AN INCIDENT.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR, UPPER: 18.6%**  
**(% BY VOLUME) LOWER: 3.0%**

**FLASH POINT:** NOT APPLICABLE

**AUTOIGNITION TEMPERATURE:**

**F: 390°**  
**C: 199°**

**NFPA HAZARD CLASSIFICATION1**

**HEALTH: 3 FLAMMABILITY: 2 REACTIVITY:**  
**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1**

**EXTINGUISHING MEDIA:** FOAM, CO2, SAND, EXTINGUISHING POWDER. DO NOT USE WATER.

**SPECIAL FIRE FIGHTING PROCEDURES:**

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

**HAZARDOUS DECOMPOSITION PRODUCTS:** NITROGEN OXIDES (NO<sub>x</sub>), CARBON MONOXIDE (CO), HYDROGEN CYANIDE (HCN)

**SECTION 5 NOTES:** COOL ENDANGERED RECEPTACLES WITH WATER SPRAY. DISPOSE OF FIRE DEBRIS AND CONTAMINATED FIRE FIGHTING WATER IN ACCORDANCE WITH OFFICIAL REGULATIONS.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:**

**HUMAN-RELATED PRECAUTIONS:**

KEEP AWAY FROM IGNITION SOURCES. ENSURE ADEQUATE VENTILATION. WEAR PROTECTIVE EQUIPMENT. KEEP UNPROTECTED PERSONS AWAY.

**MEASURES FOR ENVIRONMENTAL PROTECTION:** DO NOT ALLOW TO ENTER SEWERS/SURFACE OR GROUND WATER. DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM OR ANY WATER COURSE.

**MEASURES FOR CLEANING/COLLECTING:** DISPOSE CONTAMINATED MATERIAL AS WASTE ACCORDING TO ITEM 13. ABSORB WITH LIQUID-BINDING MATERIAL (SAND, IATOMITE, ACID BINDERS, UNIVERSAL BINDERS, SAWDUST). DO NOT FLUSH WITH WATER OR AQUEOUS CLEANSING AGENTS. ENSURE ADEQUATE VENTILATION.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING:** ENSURE THAT SUITABLE EXTRACTORS ARE AVAILABLE ON PROCESSING MACHINES. ENSURE GOOD VENTILATION/EXHAUST AT THE WORKPLACE. OPEN AND HANDLE RECEPTACLE WITH CARE.

**OTHER PRECAUTIONS:** KEEP IGNITION SOURCES AWAY-DO NOT SMOKE. PROTECT AGAINST ELECTROSTATIC CHARGES.

**STORAGE:** STORE IN A COOL LOCATION. OBSERVE OFFICIAL REGULATIONS ON STORING PACKAGING WITH PRESSURIZED CONTAINERS. DO NOT STORE TOGETHER WITH ACIDS. DO NOT STORE TOGETHER WITH ALKALIS (CAUSTIC SOLUTIONS). STORE AWAY FROM OXIDIZING AGENTS.

HEAT WILL INCREASE PRESSURE AND MAY LEAD TO THE RECEPTABLE BURSTING. PROTECT FROM HUMIDITY AND WATER. KEEP CONTAINER TIGHTLY SEALED.

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLES. PROTECT FROM HEAT AND DIRECT SUNLIGHT.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS

#### EXPOSURE GUIDELINES:

#### OSHA

Diphenylmethanediisocyanate, isomers, and homologues	9016-87-9	0.002 mg/m3
Dimethyl ether	115-10-6	400 ppm
Petroleum gases	68476-85-7	1000 ppm

#### VENTILATION :

**RESPIRATORY PROTECTION:** FOR BRIEF EXPOSURE, USE RESPIRATORY FILTER MASK. FOR LONGER EXPOSURE TIMES, USE SELF-CONTAINED BREATHING APPARATUS.

**EYE PROTECTION:** USE TIGHTLY SEALED GOGGLES.

**SKIN PROTECTION:** USE HIGH QUALITY, NIOSH APPROVED, PROTECTIVE GLOVES.

THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT TO THE PRODUCT/THE SUBSTANCE/ THE PREPARATION. DUE TO MISSING TESTS NO RECOMMENDATION TO THE GLOVE MATERIAL CAN BE GIVEN FOR THE PRODUCT/THE PREPARATION/THE CHEMICAL MIXTURE. SELECTION OF GLOVE MATERIAL SHOULD CONSIDER PENETRATION TIMES, RATES OF DIFFUSION AND THE DEGRADATION. THE EXACT BREAK THROUGH TIME SHOULD BE OBTAINED FROM THE MANUFACTURER OF THE PROTECTIVE GLOVES.

**WORK HYGIENIC PRACTICES:** KEEP AWAY FROM FOOD, BEVERAGES, AND FEED. IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING. WASH HANDS BEFORE BREAKS AND AT THE END OF WORK. DO NOT INHALE DUST/SMOKE/MIST. AVOID CONTACT WITH THE EYES AND SKIN.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Foam substance when released from container.

**ODOR:** Characteristic

**COLOR:** Black

**PHYSICAL STATE:** Viscous Liquid/Cured State is Hardened Foam

**pH AS SUPPLIED:** Not determined

**pH (Other):**

**BOILING POINT:** Not determined

F:

C:

**MELTING POINT:** Not determined

F:

C:

**Flash Point:** Not applicable

**Ignition Temperature:** 390°F (199°C)

**Self-igniting:** No

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

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**DANGER OF EXPLOSION:** Heating may cause an explosion.

**EXPLOSION LIMITS:**

Lower: 3.0 Vol%  
Upper: 18.6 Vol %

**SOLUBILITY IN WATER:** Insoluble

**PERCENT VOLATILE:** 17%

**SECTION 9 NOTES:**

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## SECTION 10: STABILITY AND REACTIVITY

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STABLE

UNSTABLE

**STABILITY:** X

**CONDITIONS TO AVOID (STABILITY):** High heat or flame source

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen cyanide (prussic acid)  
Carbon monoxide, Nitrogen oxides

**SECTION 10 NOTES:**

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:**

**LD/LC50 Values relevant for classification:** 115-10-6 Dimethyl Ether  
Inhalative LC50/4 h 308 mg/l (rat)

**SECTION 11 NOTES: Primary irritant effect:**

**Skin** Irritant to skin and mucous membranes

**Eye:** Irritating effect

**Respiratory:** sensitization possible through inhalation

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** None known

**SECTION 12 NOTES:**

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Dispose according to local, state, and federal regulations.

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** Aerosol Expanding Foam  
**HAZARD CLASS:** Aerosols, Consumer Commodity, ORM-D, limited quantity  
**ID NUMBER:** 2.1, UN 1950

### WATER TRANSPORTATION

**PROPER SHIPPING NAME:** Aerosols  
**HAZARD CLASS:** 2.1, UN 1950 (Flammable Gas Label)

### AIR TRANSPORTATION

**PROPER SHIPPING NAME:** Aerosols  
**HAZARD CLASS:** 2.1 UN 1950 (Flammable Gas Label)

### SECTION 14 NOTES:

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All ingredients are listed on the TSCA inventory, as well as the Canadian Designated Substances List. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information by the CPR.

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

#### 313 REPORTABLE INGREDIENTS:

Methylenediphenyl diisocyanate Isomers (Polymeric MDI) (CAS #9016-87-9)  
4, 4' diphenylmethanediisocyanate (MDI) (CAS # 101-68-8)  
2, 4' diphenylmethanediisocyanate (MDI) (CAS #5873-54-1)

### STATE REGULATIONS:

#### California Proposition 65:

Based on information currently available, this product is not known to contain detectable amounts of any chemicals currently listed under California Proposition 65.

### SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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**OTHER INFORMATION:** This information is based on our current knowledge and is presented in good faith. Determination should be made by the user as to the suitability of this product for their intended application. No warranty, either express or implied, is made in conjunction with the information contained in this MSDS.