

# MATERIAL SAFETY DATA SHEET

## Graffiti Barrier XP-1, Part B

Revision 1  
Prepared 2011-5-13

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Graffiti Barrier XP-1, Part B

**Product Codes:** XP-1B

**Synonyms:** Aliphatic isocyanate/polyisocyanate blend

**General Use:** Polyol crosslinker

**Manufacturer**

DavLaur Coatings LLC  
34 Lori Circle  
Maryland Heights, MO 63043

**Telephone Number for Information**

+1-314-469-4586

**Emergency Telephone Number**

+1-314-469-4586

### SECTION 2 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:**

Colorless to pale yellow viscous liquid; odorless.

**WARNING!!** Flammable liquid. Harmful if inhaled. Eye skin and respiratory tract irritant. Possible sensitizer. Reacts with common materials including water, alcohols, bases and amines, releasing large amounts of carbon dioxide.

**OSHA/HCS Status:** This material contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (28 CFR 1910.1200).

**EEC LABELING AND RISK PHRASES**

**EXPECTED ROUTES OF EXPOSURE**

EYE CONTACT SKIN INHALATION

**EFFECTS OF OVEREXPOSURE**

**EYES:** May cause irritation.

**SKIN:** May be harmful if absorbed through the skin. May cause irritation. May cause allergic reaction.

**INHALATION:** Harmful if inhaled. May cause respiratory tract irritation, shortness of breath, wheezing, headache, nausea, vomiting. Possible sensitizer.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES/SKIN:** Redness and itching or burning sensation may indicate eye or excessive skin exposure. May cause skin rash.

**INHALATION:** Asthmatic sensitization can occur from a single large inhalation exposure or from repeated lower inhalation exposures. Strict observation of exposure limits is essential (refer to section 8).

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

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Pre-existing disorders involving the eyes, skin and respiratory tract may be aggravated by overexposure to this product. May cause allergic skin reaction in susceptible persons or skin sensitization. May cause respiratory problems such as asthma, emphysema or bronchitis.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	Ingredient	CAS Number	EC Number	EC Classification
67.0 - 69.0	Hexane, 1,6-Diisocyanato-, homopolymer	28182-81-2		
14.0 - 16.0	Isophorone diisocyanate homopolymer	53880-05-0		
8.0 - 10.0	Polyoxyethylene tridecyl ether phosphate	9046-01-9		
6.0 - 7.0	Butyl acetate	123-86-4		
<1.0	Dimethylcyclohexylamine	98-94-2		
<0.5	Hexamethylene diisocyanate (HDI)	822-06-0		
<0.2	Isophorone diisocyanate	4098-71-9		

### SECTION 4 - FIRST AID MEASURES

**INHALATION:** If product vapors cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

**EYES:** Immediately flush eyes with lukewarm water for 15 - 20 minutes while holding the eyelid(s) open. If contact lens is present, DO NOT delay irrigation or attempt to remove lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

**SKIN:** Remove contaminated clothing, shoes and leather goods. Quickly and gently blot or brush away excess chemical. Flush with lukewarm flowing water for 15 minutes. If irritation persists, repeat flushing. If irritation persists, obtain medical advice.

**INGESTION:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## SECTION 5 - FIRE FIGHTING MEASURES

<b>FLASH POINT</b> >60° C (>140° F) (estimated)	<b>LEL</b> N.A.	<b>UEL</b> N.A.	<b>FLAMMABILITY CLASSIFICATION</b> Combustible liquid.
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**EXTINGUISHING MEDIA:** Recommended: foam, dry chemical, carbon dioxide. DO NOT use water unless large excess is possible.

### SPECIAL FIRE AND EXPLOSION HAZARDS

Product will burn under fire conditions. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail. Under fire conditions, toxic corrosive fumes are emitted. Reacts with water, releasing large amounts of carbon dioxide which may cause pressure build-up in confined spaces.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition. Ventilate the area. Evacuate and isolate spill area.

**SMALL & LARGE SPILLS:** Dike spill using absorbant or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbant and dike material in approved container for disposal. Dispose of saturated absorbent or cleaning materials appropriately since spontaneous heating may occur. Local, state and federal laws and regulations may apply to release and disposal of this material as well as those materials and items employed in the cleanup of releases.

## SECTION 7 - HANDLING AND STORAGE

**HANDLING PRECAUTIONS:** Wear all appropriate protective equipment as specified in Section 8. Keep containers closed when not in use. Use with adequate ventilation. Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection. Avoid contact with eyes and skin. Avoid breathing vapor. Do not take internally.

**STORAGE CATEGORY:** Not applicable

**STORAGE PRECAUTIONS:** Use reasonable care and store away from oxidizing agents. Keep in cool, dry, ventilated storage areas in closed containers and away from water or moisture. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Keep out of reach of children,

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	Other
28128-81-2	Hexane, 1,6-Diisocyanato-, Homopolymer			Manufacturer 1 mg/m3 TWA
123-86-4	Butyl Acetate	710 mg/m3 TWA, 950 mg/m3 STEL	150 ppm TWA 200 ppm STEL	
822-06-6	Hexamethylene diisocyanate		0.005 ppm TWA	
4098-71-9	Isophorone diisocyanate	0.005 ppm TWA 0.02 ppm STEL Slin notation	0.005 ppm TWA	

**ENGINEERING CONTROLS:** Use adequate ventilation. Local exhaust is preferable. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**PROTECTIVE EQUIPMENT:** Wear protective clothing to prevent repeated or prolonged contact with product.

**RESPIRATORY PROTECTION:** Avoid breathing vapor. Respiratory protection is not needed under ambient conditions with adequate local exhaust. Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. If vapor is generated when material is heated or handled, appropriate respiratory protection should be worn. Always use a NIOSH/MESA approved respirator when vapor concentration exceeds applicable concentration limits.

**EYE PROTECTION:** Wear protective goggles or safety glasses with side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

**HAND PROTECTION:** Neoprene rubber gloves, nitrile gloves or those recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable. Breakthrough time of selected gloves must be greater than the intended use period.

**WORK/HYGIENIC PRACTICES:** Facilities storing or using this material should be equipped with an eyewash station and safety shower. Practice safe workplace habits. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Colorless to pale yellow viscous liquid	<b>Viscosity at 25 deg C</b>	~2,000 mPa.s
<b>ODOR</b>	Odorless	<b>VOLATILE VOLUME</b>	Not determined
<b>DENSITY</b>	1.09 - 1.13 g/ml (9.09 - 9.43 lb/gal)	<b>EVAPORATION RATE</b>	Not determined
<b>SPECIFIC GRAVITY</b>	1.09 - 1.13	<b>VAPOR DENSITY</b>	Not determined
<b>BOILING POINT</b>	>100 degrees C (>212 deg F)	<b>SOLUBILITY IN WATER</b>	Reacts with water
<b>MELTING POINT</b>	Not determined		

**VOLATILE ORGANIC COMPOUNDS (VOC)** Not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Stability:</b>	Stable; contact with water or humid air may result in the release of acetic acid vapors.
<b>Conditions to Avoid:</b>	Extreme heat, open flame, static electricity, moisture, ignition sources.
<b>Incompatibility (Materials to Avoid):</b>	Water, strong oxidizing agents, strong acids, strong bases, alcohols, amines.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition products include carbon oxides, and oxides of nitrogen.
<b>Hazardous Polymerization:</b>	Decomposition products by hydrolysis contain carbon dioxide.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute Effects:** Not determined for this product.

**Chronic Effects:** Not listed as a carcinogen by IARC, ACGIH, NTP or OSHA. No data is available regarding its mutagenicity, and/or teratogenicity, nor is there available data that indicates it causes adverse developmental and/or fertility effects.

## SECTION 12 - ECOLOGICAL INFORMATION

**Environmental Effects:** No data is available for this product.

**Chemical Fate:** No data is available for this product.

## SECTION 13 - DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized whenever possible. Although this product is classified as non-hazardous under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261 this material and its container should be disposed of in a safe way as empty containers may contain product residue. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial and Local laws and regulations.

## SECTION 14 - TRANSPORT INFORMATION

**Note:** Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

<b>DOT, Ground USA:</b>	Not regulated for transportation	<b>Signal Word:</b>	None
<b>UN TGD, Canada:</b>	Not regulated for transportation	<b>Hazard Symbols:</b>	None
<b>IMO/IMDG:</b>	Not regulated for transportation	<b>Marine Pollutant:</b>	This product is not a marine pollutant.
<b>ICAO/IATA:</b>	Not regulated for transportation		

## SECTION 15 - REGULATORY INFORMATION

### U. S. FEDERAL REGULATIONS

**OSHA Hazard Communication Standard:** This material contains components which are "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (28 CFR 1910.1200).

**TSCA Status:** All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory.

### **Superfund Amendments and Reauthorization Act (SARA)**

#### **SARA Section 311/312 Hazard Categories:**

**Reactive hazard:** No **Pressure hazard:** No **Fire hazard:** Yes **Immediate/acute:** Yes **Delayed/chronic:** Yes

**SARA 313 Information:** The following components of this product are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986: Hexamethylene diisocyanate, Isophorone diisocyanate.

#### **SARA 302/304/311/312 Extremely Hazardous Substance:**

No components of the product are subject to the reporting requirements of these sections of Title III of SARA.

**SARA 302/304 Emergency Planning & Notification:** The following chemicals in this product are subject to the reporting requirements of these sections of Title III of SARA: Isophorone diisocyanate: TPQ = 500 lbs

**Comprehensive Response Compensation and Liability Act (CERCLA):** The following components of this product are listed: Butyl acetate; RQ = 5,000 lbs. Hexamethylene diisocyanate (HDI); RQ = 100 lbs.

**Clean Air Act (CAA)**

Hexamethyl diisocyanate is listed as a Hazardous Air Pollutant (HAPs) designated in CAA Section 112 (b).  
This product does not contain any Class 1 Ozone depleters.  
This product does not contain any Class 2 Ozone depleters.

**Clean Water Act (CWA)**

Butyl acetate is listed as Hazardous Substances under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

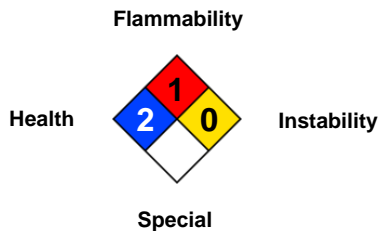
**U.S. State Regulations**

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:**

This product contains the following chemical(s) known to the state of California to cause cancer or other reproductive harm:  
Trace amounts (<0.1%) of dioxane, ethylene oxide, acetaldehyde

**SECTION 16 - OTHER INFORMATION**

**National Fire Protection Association (NFPA)**



The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.