

MATERIAL SAFETY DATA SHEET
Artisan Anti Graffiti Barrier Coating Part B

SECTION 1 PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: Artisan Anti-Graffiti Barrier Coating Part B

Manufacturer:

Chemique, Inc.
315 N. Washington Ave.
Moorestown, NJ 08057
(856) 235-4161

MSDS Date of Preparation: 12/22/10

EMERGENCY PHONE: 800-535-5053 (Infotrac)

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS#.</u>	<u>WT.%</u>
Hexane Diisocyanate Homopolymer	28182-81-2	75.7%
Isophorone Diisocyanate Homopolymer	53880-05-0	11.5%
Butyl Acetate	123-86-4	9.3%
Polyoxyethylene Tridecyl Ether Phosphate	9046-01-9	1%
Dimentylcyclohexylamine	98-94-2	2.2%
Isophorone Diisocyanate	4098-71-9	0.2%
Hexamethylene Diisocyanate	822-06-0	0.1%

SECTION 3: HAZARDS IDENTIFICATION

This product is a clear, thick liquid with a solvent odor.

EMERGENCY OVERVIEW

WARNING!!

Combustible liquid. Harmful if inhaled. May cause eye, skin and respiratory tract irritation. May be absorbed through the skin in harmful amounts. Inhalation of vapors or mists may cause respiratory irritation, headache, nausea, vomiting. May cause skin or respiratory sensitization (allergic reaction). May be harmful if swallowed. Individuals with asthma or sensitivity to isocyanates should avoid exposure to this product. Reacts with common materials including water and alcohols releasing large amounts of carbon dioxide – which can be dangerous in confined areas.

This product is one part of a two part product. Read and understand the hazardous information on the MSDS for Part B before using this product.

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HEALTH HAZARDS:

INHALATION: Harmful if inhaled. Inhalation of vapors may cause respiratory tract irritation, shortness of breath, wheezing, headache and nausea. May cause respiratory tract sensitization. May cause serious allergic reaction in individuals sensitized to isocyanates.

SKIN CONTACT: May cause irritation with reddening of the skin. May be absorbed through the skin cause systemic poisoning. May cause skin sensitization (allergic reaction). Skin contact may cause allergic respiratory reactions in sensitized individuals.

EYE CONTACT: May cause irritation with redness, tearing and stinging.

INGESTION: Swallowing may cause gastrointestinal irritation, nausea, vomiting and headache.

CHRONIC EFFECTS OF OVEREXPOSURE: Asthmatic sensitization can occur from a single or repeated exposures. Symptoms include shortness of breath, labored breathing, wheezing, coughing and a sense of constriction in the chest.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with chronic respiratory, eye or skin diseases may be at increased risk from exposure to this material.

SECTION 4 FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes while lifting the upper and lower lids. Get medical attention.

SKIN CONTACT: Immediately wash skin with soap and water. Remove contaminated clothing and launder before reuse. Clean contaminated shoes. Get medical attention if symptoms develop.

INHALATION: Remove to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.

INGESTION: If conscious, wash mouth out with water. DO NOT induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: 176° F (80°C)

METHOD: N/A

FLAMMABLE LIMITS: (vol % in air) LEL: 1.7% (butyl acetate) UEL: 7.6% (butyl acetate)

AUTOIGNITION TEMPERATURE: Not established

EXTINGUISHING MEDIA: Use foam, dry chemical or carbon dioxide.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product will burn under fire conditions. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Reacts with water releasing large amounts of carbon dioxide which may cause pressure build-up in confined spaces.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing as described in Section 8. Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Use non-sparking tools and equipment. Clean up spill with a decontamination solution made up of 50% isopropanol, 45% water and 5% ammonia . Cover the area for at least one hour. Collect washings for disposal. Do not flush spill to sewer! Report releases as required by local, state and federal authorities.

SECTION 7 HANDLING And STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, well ventilated area away from ignition sources and other incompatible materials. Store only in original container. Keep containers tightly closed until ready for use. Store, transfer or handle under a blanket of nitrogen. Avoid contact with water and excess humidity.

Avoid contact with eye, skin or clothing. Do not breathe vapors or mists. Do not ingest. Wash hand thoroughly after use. Use only with adequate ventilation.

OTHER PRECAUTIONS: Empty containers retain product residues. Follow all MSDS precautions in handling empty containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

INGREDIENTS	CAS#.	EXPOSURE LIMITS
Hexane Diisocyanate Homopolymer	28182-81-2	1 mg/m ³ Ceiling TWA Manufacturer
Isophorone Diisocyanate Homopolymer	53880-05-0	None Established
Butyl Acetate	123-86-4	150 ppm TWA ACGIH TLV 200 ppm STEL 150 ppm TWA OSHA PEL
Polyoxyethylene Tridecyl Ether Phosphate	9046-01-9	None Established
Dimentylcyclohexylamine	98-94-2	None Established
Isophorone Diisocyanate	4098-71-9	0.05 ppm TWA ACGIH TLV 0.02 ppm STEL 0.05 ppm TWA OSHA PEL
Hexamethylene Diisocyanate	822-06-0	0.05 ppm TWA ACGIH TLV

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RESPIRATORY PROTECTION: If exposure limits are exceeded, a NIOSH approved full face piece organic vapor or supplied air respirator appropriate for the form and concentration of the contaminants should be used. A cartridge change out schedule is required for air purifying cartridge respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

VENTILATION: If exposure limits are exceeded mechanical ventilation such as local exhaust may be required.

GLOVES: Nitrile, butyl rubber or other impervious gloves are recommended.

PROTECTIVE CLOTHING: Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible.

EYE PROTECTION: Chemical safety goggles should be worn if contact is possible.

OTHER PROTECTIVE EQUIPMENT: For operations where contact can occur, a safety shower and an eye wash facility should be available.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT (@ 760 mmHg): 212 °F/ >100 °C

SPECIFIC GRAVITY (H₂O=1): 1.11

VAPOR PRESSURE (@ 60° C mm Hg): Not available

VAPOR DENSITY (AIR=1): Not available

EVAPORATION RATE (Butyl alcohol = 1): Not available

COEFFICIENT OF WATER/OIL: Not available

APPEARANCE AND ODOR: Clear, thick liquid with a solvent odor

MELTING POINT: Not available

VOC: 97 g/L

pH: Not available

SOLUBILITY IN WATER: Reacts

SECTION 10 STABILITY and REACTIVITY

STABILITY: This material is stable.

CONDITIONS TO AVOID: Keep away from heat, spark, flames or other sources of ignition. Avoid contact with water or moisture.

INCOMPATIBILITY: Avoid strong bases, acids, oxidizing agents, alcohols, amines. Avoid contact with water or moisture. Reaction with water, alcohol, bases and amines release large amounts of carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION 11 TOXICOLOGICAL INFORMATION

TOXICOLOGY DATA: This product has not been tested as a whole. Toxicity values for the components are:

Hexane Diisocyanate Homopolymer: Oral Rat LD50 >5,000 mg/kg

Isophorone Diisocyanate Homopolymer: No data available

Butyl Acetate: Oral Rat LD50 14 g/kg

Polyoxyethylene Tridecyl Ether Phosphate:

Dimentylcyclohexylamine

Isophorone Diisocyanate: Oral Rat LD50 > 1000 mg/kg

Inhalation Rat LC50 123 mg/m³/4 hr

Skin Rabbit LD50 1,060 mg/kg

Hexamethylene Diisocyanate: Oral rat LD50 0.96 g/kg

Inhalation rat LC50 22 ppm/4 hr.

Skin rabbit LD50 593 mg/kg

None of the components of this product is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH or OSHA.

None of the components have been found to cause mutagenicity.

Hexamethylene diisocyanate and isophorone diisocyanate are known to cause sensitization in humans.

None of the components are known to cause adverse reproductive effects in laboratory animals.

SECTION 12: ECOLOGICAL INFORMATION

Butyl Acetate: 96 hr EC50 fathead minnow 18 mg/l

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with all local, state and federal regulations.

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SECTION 14: TRANSPORT INFORMATION

Not regulated in non-bulk packaging (49 CFR 173.150 (f)).

In bulk packages the following applies:

DOT SHIPPING NAME: Combustible liquid n.o.s. (butyl acetate)

DOT HAZARD CLASSIFICATION: Class 3, PGIII

DOT LABELS REQUIRED (49CFR172.101): Flammable Liquid

UN NUMBER: UN1993

Note: If >50,000 pounds of this product in a single container, RQ requirements apply.

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD CLASSIFICATION: Combustible, Irritant, Sensitizer

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 HAZARD CLASSIFICATION: Fire Hazard, Acute health, Chronic Health

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:

Isophorone Diisocyanate	4098-71-9	0.1-0.2%
Hexamethylene Diisocyanate	822-06-0	0.1-0.2%

CERCLA Hazardous Substances (Section 103)/RQ: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Hexamethylene Diisocyanate (0.2% maximum) of 100 lbs, is 50,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

TOXIC SUBSTANCES CONTROL ACT: All of the components of this product are listed on the TSCA inventory.

CALIFORNIA PROPOSITION 65: This product contains the following chemicals which are known to the State of California to cause cancer and reproductive toxicity (birth defects): ethylene oxide <500 ppm (cancer, female reproductive toxicity); 1, 4 dioxane <500 ppm (cancer); acetaldehyde <500 ppm (cancer)

WHMIS CLASSIFICATION: Class B3 – Combustible Liquid; Class D Division 2 Subdivision A (A Very Toxic Material Causing other Chronic Effects)

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This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

SECTION 16: OTHER INFORMATION

NFPA Rating: Health: 2 Fire: 2 Reactivity: 1