

SAINT-GOBAIN PERFORMANCE PLASTIC CORPORATION

HMIS: Health – 3 Flammability – 1 Reactivity - 1

SECTION I – Identification of Product

PRODUCT NAME: Chemgrip Cement, Part A

OTHER/GENERIC NAMES: N/A

FORM: Paste

PRODUCT USE: Bonding Etched/Treated PTFE and other fluoropolymers.

MANUFACTURE NAME/ADDRESS: Saint-Gobain Performance Plastic Corp., 150 Dey Road,
Wayne, NJ 07470 USA

EMERGENCY TELEPHONE NO.: US: 1-800-255-3924 Worldwide 812-248-0585

TECHNICAL ASSISTANCE TELEPHONE NO.: 973-696-4700

SECTION II –Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight %
Epoxy Resin	25062-38-6	<90%
Epoxy Diluent	2426-08-6	<15%
Cobalt	7440-48-4	<5%
Cobalt Compound	1302-78-9	<5%

SECTION III – Hazards Identification

EMERGENCY OVERVIEW:

Potential Health Hazards:

SKIN: May be corrosive and may cause sensitization, chemical burns, lesions, and/or moderate irritation.

EYES: May cause moderate irritation, lesions and/or temporary corneal damage.

INHALATION: May cause lung injury, nasal irritation, and/or central nervous system depression. May affect the mucous lining of the nose and lungs.

INGESTION: May be moderately irritating.

DELAYED EFFECTS: Preexisting eye and skin disorders may be aggravated. Preexisting skin or lung allergies may increase the chance of developing increased allergy symptoms. Chronic Respiratory disease may also be aggravated by exposure.

Ingredients found on one of the OSHA designated carcinogen lists are listed below:

None known

SECTION IV – First Aid Measures

SKIN: Flush exposed areas thoroughly with soap and water until all chemical is removed. Remove contaminated clothing and launder before reuse. If irritation persists, get medical attention.

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

INHALATION: first aid is not normally required. Move to fresh air and give oxygen if breathing is labored. Get medical attention.

INDEGESTION: If individual is conscious, give milk or water to dilute stomach contents. **DO NOT**

INDUCE VOMITING, DO NOT attempt to give anything by mouth to a drowsy or unconscious person. Keep warm and quiet. Get prompt medical attention.

ADVICE TO PHYSICIAN: Determine whether vomiting or stomach evacuation is necessary.

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SECTION V – Fire Fighting Measures

Flammable Properties

Flash Point (F):>200F

Flash Point Method: CC

Auto Ignition Temperature: N/A

Upper Flame Limit (volume % in air): N/A

Lower Flame Limit (volume % in air): N/A

Oxygen Index: N/A

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, and water fog.

UNUSUAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS: Do not release runoff from fire control methods to sewer or waterways. Because fire may produce toxic thermal decomposition products, wear self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive pressure mode.

Section VI – Accidental release Measures

IN CASE OF SPILLS OR OTHER RELEASE: Remove all sources of ignition. Absorb with an absorbent material and place in a container for disposal. Flush contaminated area with water.

SECTION VII – Handling and Storage

HANDLING PRECAUTIONS: Wear appropriate protective equipment when handling material. Avoid contact with eyes, skin, and clothing.

STORAGE RECOMMENDATIONS: Combustible liquid. Avoid heat and open flames. Store in a cool, well ventilated area. Keep containers closed.

Section VIII – Exposure Controls/Personal Protection

VENTILATION: General or local exhaust ventilation should be provided.

RESPIRATORY PROTECTION: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (CFR 1910.134) and is necessary, wear a MSHA/NIOSH – approved respirator.

PERSONAL PROTECTIVE EQUIPMENT: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safe goggles, per OSHA eye- and face- protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

ADDITIONAL RECOMMENDATIONS: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

EXPOSURE GUIDELINES/LIMITS: N/A

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS: N/A

SECTION IX – Physical and Chemical Properties

APPEARANCE: Red viscous liquid

PHYSICAL STATE: Heavy liquid

ODOR: N/A

SPECIFIC GRAVITY (H₂O = 1): 1.1

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SOLUBILITY IN WATER (weight %): Insoluble

PH: N/A

BOILING POINT: >325F

MELTING POINT: N/A

VAPOR PRESSURE A 77F: 3mm Hg

VAPOR DENSITY (Air = 1): 4.5

EVAPORATION RATE: Not noted

% VOLATILES: nil

IGNITION TEMPERATURE: N/A

FLASH POINT: >200F

THERMAL DECOMPOSITION: See Section X.

SECTION X – Stability and Reactivity

CHEMICAL STABILITY: Stable

INCOMPATIBILITIES (Specific Materials to Avoid): Strong oxidizers, caustics, bases, and acids.

HAZARDOUS DECOMPOSITIONS: Thermal oxidative decomposition can produce oxides of oxygen and aldehydes. Above 500F, aldehydes, acids, and other organic substances may form.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI – Toxicological Information

GENERAL: Can cause moderate eye irritation. Severe skin irritation or chemical burns may occur. This Material is considered a dermal toxicant.

IMMEDIATE (ACUTE) EFFECTS: See section VII.

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS: N/A

CARCINOGENICITY: May be carcinogenic.

MUTAGENICITY: In viro Ames test was positive. In vivo, rat cytogenetics was positive and mouse dominant lethal was positive and negative.

TOXICITY OF PRODUCT: N/A

OTHER DATA:	Acute Oral Effects:	Rat, oral, LD50:2g/kg
	Acute Inhalation Effects:	Mouse: >3500 ppm for 4 hour exposure
		Rat: 1030 ppm for 8 hour exposure
		Rat: 28 day study at concentrations of 0.5 And 1.0 mg/l, noel was 0.1 mg/l

SECTION XII – Ecological Information

N/A

SECTION XIII – Disposal Considerations

DISPOSAL: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

SECTION XIV – Transport information

SHIPPING NAME: Adhesive

SHIPPING SYMBOLS: Not Regulated

SECTION XV – Regulatory Information

Toxic Substances Control Act (TSCA)

TSCA INVENTORY STATUS: All chemical components are listed in the TSCA inventory.

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OTHER TSCA ISSUES: None.

SARA Title III/CERCLA

“Reportable Quantities” (RQ) and/or “Threshold Planning Quantities” (TPQ’s) exist for the following ingredients.

<u>Ingredient Name</u>	<u>SARA/CERCLA RQ(lb)</u>	<u>SARA EHS TPQ (LB)</u>
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None

SECTION 311 HAZARD CLASS: None

The following ingredients are SARA 313 “Toxic Chemicals”, CAS numbers and weight percents are found in Section II.

<u>Ingredient Name</u>	<u>Comment</u>
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None

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section II, the following are listed for state right-to-know purposes.

<u>Ingredients Name</u>	<u>Weight %</u>	<u>Comment</u>
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None

ADDITIONAL REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65: This product contains the following substance(s) known by the state California to cause cancer and reproductive harm.

Epicholohydrin

WHMIS CLASSIFICATION (CANADA): N/A

FOREIGN INVENTORY STATUS: N/A

SECTION XVI – Other Information

This material safety data sheet was prepared in compliance with US OSHA Hazard Communication Standard 29CFR 1910.1200 and the European Council Directive 91/155/EEC, 67/548, and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging, and labeling of dangerous substances.

The Information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof; however, Saint-Gobain Performance Plastic Corporation make no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assume no liability to any user thereof. The information or the suitability of the recommendations, and assume no liability to any user thereof. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user’s own assessment of the workplace risks as required by other health and safety legislation.

Issues Date: 3-17-03

Supersedes: 1-7-00

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HMIS: Health – 3 Flammability – 1 Reactivity - 1

SECTION I – Identification of Product

PRODUCT NAME: Chemgrip Cement, Part B

OTHER/GENERIC NAMES: N/A

FORM: Paste

PRODUCT USE: Bonding Etched/Treated PTFE and other fluoropolymers.

MANUFACTURE NAME/ADDRESS: Saint-Gobain Performance Plastic Corp., 150 Dey Road,
Wayne, NJ 07470 USA

EMERGENCY TELEPHONE NO.: US: 1-800-255-3924 Worldwide 812-248-0585

TECHNICAL ASSISTANCE TELEPHONE NO.: 973-696-4700

SECTION II –Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight %
Polyamide Resin	68410-23-1	97%
Triethylenetetramine	112-24-3	>1%

SECTION III – Hazards Identification

EMERGENCY OVERVIEW:

Potential Health Hazards:

SKIN: Frequent or prolonged contact may irritate and cause dermatitis.

EYES: May cause severe eye irritation.

INHALATION: Based on its low volatility, product is not considered to be respiratory hazard under normal condition of use. Irritation and/or toxic vapors may be released at elevated temperatures.

INGESTION: Low order of toxicity. May cause gastrointestinal irritation or ulceration. May cause burns to the throat and/or mouth.

DELAYED EFFECTS: Chronic eye contact may cause conjunctivitis; repeated or prolonged skin contact may cause sensitization dermatitis.

Ingredients found on one of the OSHA designated carcinogen lists are listed below:

None known.

SECTION IV – First Aid Measures

SKIN: Flush exposed areas thoroughly with soap and water until all chemical is removed. Remove contaminated clothing and launder before reuse. If irritation persists, get medical attention.

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention. Do NOT wear contact lenses when working with this material.

INHALATION: First Aid is not normally required. Move to fresh air. Get medical attention if irritation persists.

INGESTION: If individual is conscious, give milk or water to dilute stomach contents. DO NOT INDUCE VOMITING, DO NOT attempt to give anything by mouth to a drowsy or unconscious person. Keep warm and quiet. Get medical attention.

ADVICE TO PHYSICIANS: Never give adrenaline following exposure.

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SECTION V – Fire Fighting Measures

Flammable Properties

FLASH POINT (F): Greater than 200F closed cup

FLASH POINT METHOD: N/A

AUTO IGNITION TEMPERATURE: N/A

UPPER FLAME LIMIT (volume % in air): N/A

LOWER FLAME LIMIT (volume % in air): N/A

OXYGEN INDEX: N/A

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, and water fog.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Decomposition and combustion products may be toxic.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS: Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode.

SECTION VI – Accidental Release Measures

IN CASE OF SPILLS OR OTHER RELEASE: Take up with sand or absorbent material and place in a container for later disposal.

SECTION VII – Handling and Storage

STORAGE RECOMMENDATIONS: Store out of direct sunlight in a dry area. Maximum storage temperature is 100F.

SECTION VIII – Exposure Controls/Personal Protection

VENTILATION: General or local ventilation should be provided.

RESPIRATORY PROTECTION: Seek professional advice prior to respiratory selection and use. Follow OSHA respirator regulations (29CFR 1910.134) and, if necessary, wear an MSHA/NIOSH- approved respirator.

PERSONAL PROTECTION EQUIPMENT: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face- protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

ADDITIONAL RECOMMENDATIONS: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

EXPOSURE GUIDELINES/LIMITS: N/A

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS: N/A

SECTION IX – Physical and Chemical Properties

APPEARANCE: Heavy yellow liquid paste

PHYSICAL STATE: Liquid

ODOR: N/A

SPECIFIC GRAVITY (H₂O=1): 0.98

SOLUBILITY IN WATER (weight %): very slight

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PH: CA. 11

BOILING POINT: Greater the 200 degree C

MELTING POINT: N/A

VAPOR PRESSURE @ 20 degree C

DENSITY: 10.5lb./gal

EVAPORATION RATE: Not Rated

% VOLATILES: Zero Percent

IGNITION TEMPERATURE: N/A

FLASH POINT: Greater than 200 F Closed cup

THERMAL DECOMPOTION: See section X

SECTION X – Stability and Reactivity

CHEMICAL STABILITY: Stable.

INCOMPATIBILITIES (Specific Materials to Avoid): Strong Oxidizing agents, Acids, Natural Rubbers.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal oxidative decomposition can produce CO, CO₂, Ammonia, and Amines.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI – Toxicology Information

GENERAL: Can cause severe eye irritation. Prolonged or repeated contact to skin may cause dermatitis or sensitization.

IMMEDIATE (ACUTE) EFFECTS: See section VII.

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS: N/A

TOXICITY OF PRODUCT: N/A

OTHER DATA: N/A

SECTION XII – Ecological Information

N/A

SECTION XII – Disposal Considerations

DISPOSAL: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

SECTION XIV – Transport Information

SHIPPING NAME: Adhesive

HAZARD CLASS: None

HAZARD LABEL: Not regulated

PACKING GROUP: None

SECTION XV – Regulatory Information

Toxic Substances Control Act (TSCA)

TSCA INVENTORY STATUS: All chemical components are listed in the TSCA inventory.

OTHER TSCA ISSUES: None

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SARA Title III/CERCLA

“Reportable Quantities” (RQ’s) and/or “Threshold Planning Quantities” (TPQ’s) exist for the following ingredients.

<u>Ingredient Name</u>	<u>SARA/CERCLA RQ (lb)</u>	<u>SARA EHS TPQ (lb)</u>
None		

SECTION 311 HAZARD CLASS: None

The following ingredients are SARA 313 “Toxic Chemicals”, CAS Number and weight percents are found in Section II.

<u>Ingredient Name</u>	<u>Comment</u>
None	

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section II, the following are listed for state right-to-know purposes.

<u>Ingredient Name</u>	<u>Weight %</u>	<u>Comment</u>
None		

ADDITIONAL REGULATORY INFORMATION:

CALIFORNIA PROPOSTION 65: This product is not know to contain any substance listed by the state of California as known to cause cancer or reproductive harm.

WHMIS CLASSIFICATION (CANADA): N/A

FOREIGN INVENTORY STATUS: N/A

SECTION XVI – Other Information

This material safety data sheet was prepared in compliance with US OSHA Hazard Communication Standard 29CFR 1910.1200 and the European Council Directive 91/155EEC, 67/548 and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labeling of dangerous substances and preparations.

The information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof; however, Saint-Gobain Performance Plastic Corporation makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof. The information contained in this sheet does not constitute a hazard

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assessment and should not be used in place of the user's own assessment of workplace risks as required by other health and safety legislation.

Issue Date: 3-24-03

Supersede: 1-7-00

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