

Safety Data Sheet

Issue Date: 22-Oct-2011

Revision Date: 11-Feb-2014

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Inter-Mix 90 Hybrid Panel Bonder (Resin Base)

Other means of identification

SDS # IES-8422R

Other Information Product #8422 and #8423.

Recommended use of the chemical and restrictions on use

Recommended Use Structural adhesive resin base (use with hardener).

Details of the supplier of the safety data sheet

Supplier Address

International Epoxies & Sealers
30241 Commerce Drive
San Antonio, FL 33576

Emergency Telephone Number

Company Phone Number 1-800-451-7206

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Black viscous liquid

Physical State Liquid

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 2

Signal Word

Danger

Hazard Statements

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause genetic defects

Suspected of causing cancer



Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF ON SKIN: Wash with plenty of soap and water
 Take off contaminated clothing and wash it before reuse
 IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

44% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Bisphenol A - Epichlorohydrin polymer	25068-38-6	30-60
1,4-bis((2,3-epoxypropoxy)methyl)cyclohexane	14228-73-0	7-13
Fused Silica	60676-86-0	1-10
Synthetic Amorphous Silica	67762-90-7	1-10
Glass Beads	65997-17-3	1-5
(3-Glycidyloxypropyl)trimethoxysilane	2530-83-8	0.5-1.5
Stoddard solvent	8052-41-3	<0.3
Carbon Black	1333-86-4	<0.6
Alkyl Phenol Blocked Polyisocyanate	Proprietary	5-20

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	If exposed or concerned: Get medical advice/attention.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention.
Inhalation	Remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Rinse mouth. Do not induce vomiting. Give two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects

Symptoms	Symptoms of inhalation may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Symptoms of eye contact may include redness, swelling, pain, tearing, and blurred or hazy vision. May cause blisters and sores. Abdominal pain, stomach upset, nausea, vomiting and diarrhea.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use fire extinguishers with class B extinguishing agents. Dry chemical. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media Water spray may be ineffective.

Specific Hazards Arising from the Chemical

No specific fire or explosion hazard.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with water. Spills and releases may have to be reported to Federal and/or local authorities. See section 15.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash thoroughly after handling. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Carefully vent any internal pressure before removing closure. Avoid contact with skin and eyes. Avoid breathing dust created by cutting, sanding, grinding, or machining. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Keep away from heat.

Incompatible Materials

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fused Silica 60676-86-0	-	(vacated) TWA: 0.1 mg/m ³ respirable dust : (80)/(% SiO ₂) mg/m ³ TWA TWA: 20 mppcf	-
Glass Beads 65997-17-3	TWA: 1 fiber/cm ³ respirable fibers: length >5 μm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m ³ inhalable fraction	-	-
Carbon Black 1333-86-4	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min TWA: 350 mg/m ³

Appropriate engineering controls

Engineering Controls

Use a local exhaust or general dilution ventilation system.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Safety glasses with side-shields. Indirect vented goggles.

Skin and Body Protection

Consult the glove manufacturer for the most appropriate glove material. Use body protection appropriate for task. Nitrile or Neoprene gloves may afford adequate skin protection.

Respiratory Protection

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half face-piece or full-face air-purifying respirator with P95 particulate filters.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Not determined
Appearance	Black viscous liquid	Odor Threshold	Not determined
Color	Black		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	Not applicable		
Melting Point/Freezing Point	Not applicable		
Boiling Point/Boiling Range	>= 35 °C / 95 °F		
Flash Point	> 104 °C / 219 °F		
Evaporation Rate	< 1	CC (closed cup)	(butyl acetate = 1)
Flammability (Solid, Gas)	n/a-liquid		
Upper Flammability Limits	No data available		
Lower Flammability Limit	No data available		
Vapor Pressure	<5 mm Hg		
Vapor Density	No data available		
Specific Gravity	~1.19	(1=Water)	
Water Solubility	Negligible		
Solubility in other solvents	Not determined		
Partition Coefficient	No data available		
Auto-ignition Temperature	No data available		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	>400 centistokes		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
VOC Content	No data available		
Density	9.9 lb/gal		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

- Eye Contact** Causes serious eye irritation.
- Skin Contact** May cause an allergic skin reaction. Causes skin irritation.
- Inhalation** Avoid breathing vapors or mists.
- Ingestion** Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol A - Epichlorohydrin polymer 25068-38-6	= 11400 mg/kg (Rat)	20000 mg/kg (rabbit)	-
(3-Glycidyoxypropyl)trimethoxysilane 2530-83-8	= 22600 µL/kg (Rat)	= 3970 µL/kg (Rabbit)	-
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

- Symptoms** Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- Sensitization** May cause an allergic skin reaction.
- Germ cell mutagenicity** May cause genetic defects.
- Carcinogenicity** Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Fused Silica 60676-86-0		Group 3		
Glass Beads 65997-17-3		Group 3		
Carbon Black 1333-86-4	A3	Group 2B		X

Legend

- ACGIH (American Conference of Governmental Industrial Hygienists)**
- A3 - Animal Carcinogen
- IARC (International Agency for Research on Cancer)**
- Group 2B - Possibly Carcinogenic to Humans
- Group 3 IARC components are "not classifiable as human carcinogens"
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)**
- X - Present

Numerical measures of toxicity

Not determined

- Unknown Acute Toxicity** 44% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Carbon Black 1333-86-4				5600: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Marine Pollutant

This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed
EINECS	Listed
AICS	Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*
- AICS - Australian Inventory of Chemical Substances*

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Not determined

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Carbon Black - 1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Fused Silica 60676-86-0	X	X	
Carbon Black 1333-86-4	X	X	X
Stoddard solvent 8052-41-3	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

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None

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

Not determined

Not determined

Not determined

Not determined

Issue Date: 22-Oct-2011**Revision Date:** 11-Feb-2014**Revision Note:** New format**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet