### **J&B PART NUMBER**

**IES8422** 

# **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

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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

<sup>\*\*</sup>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

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pain, stomach upset, nausea, vomiting and diarrhea.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 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,

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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/m³ respirable dust : (80)/(% SiO2) mg/m³ TWA TWA: 20 mppcf	-
Glass Beads 65997-17-3	TWA: 1 fiber/cm3 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/m³ inhalable fraction		-
Carbon Black 1333-86-4	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m³	IDLH: 20000 mg/m³ Ceiling: 1800 mg/m³ 15 min TWA: 350 mg/m³

### 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** 

**Appearance** 

Liquid

Color

Black viscous liquid

Black

Odor

Not determined

Odor Threshold

CC (closed cup)

(1=Water)

(butyl acetate = 1)

Remarks • Method

Not determined

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Property

рΗ Melting Point/Freezing Point

**Boiling Point/Boiling Range** Flash Point **Evaporation Rate** 

Flammability (Solid, Gas) **Upper Flammability Limits** Lower Flammability Limit

Vapor Pressure **Vapor Density Specific Gravity** 

Water Solubility Solubility in other solvents **Partition Coefficient Auto-ignition Temperature Decomposition Temperature** Kinematic Viscosity **Dynamic Viscosity Explosive Properties Oxidizing Properties** 

**VOC Content** Density

Values

Not applicable Not applicable >= 35 °C / 95 °F > 104 °C / 219 °F

< 1 n/a-liquid

No data available No data available <5 mm Hg No data available ~1.19

Negligible Not determined No data available No data available Not determined Not determined >400 centistokes Not determined Not determined

No data available 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

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### 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	= 11400 mg/kg (Rat)	20000 mg/kg (rabbit)	•
polymer		12.2.	
25068-38-6			
(3-Glycidyloxypropyl)trimethoxysilan	= 22600 µL/kg (Rat)	= 3970 µL/kg (Rabbit)	-
e			
2530-83-8			
Carbon Black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
1333-86-4			

# 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		х

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

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# **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.

<u>DOT</u> Not regulated

IATA Not regulated

**IMD**G

Marine Pollutant This material may meet the definition of a marine pollutant

# 15. REGULATORY INFORMATION

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# International Inventories

TSCA Listed
DSL Listed
EINECS Listed
AICS Listed

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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	×	**************************************
Carbon Black 1333-86-4	X	×	×
Stoddard solvent 8052-41-3	×	Х	Х

IES-8422R - Inter-Mix 90 Hybrid Panel Bonder (Resin Base)

# **16. OTHER INFORMATION**

NFPA HMIS **Health Hazards** 

Not determined

**Flammability** 

Not determined

Instability

Special Hazards

None

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Health Hazards

Flammability

Physical Hazards
Not determined

Personal Protection Not determined

Issue Date:

22-Oct-2011

Revision Date: Revision Note:

11-Feb-2014 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** 

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# **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 (Hardener)

Other means of identification

SDS#

IES-8422H

Other Information

Product #8422 and #8423.

Recommended use of the chemical and restrictions on use

Recommended Use

Structural adhesive hardener (use with base).

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 Tan viscous liquid

Physical State Liquid

Odor slight amine

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Reproductive toxicity	Category 2

# Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin

## Signal Word

Danger

# **Hazard Statements**

Harmful if swallowed
Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
May cause genetic defects

Suspected of damaging fertility or the unborn child



### 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

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

### 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

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Immediately call a poison center or doctor/physician IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash it before reuse

Get immediate medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

### Precautionary Statements - Storage

Store locked up

# Preçautionary 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**

54.5% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
9,12-Octadecadienoic Acid (Z,Z), dimer, polymer	68541-13-9	15-40
Amine Terminated Liquid Copolymer	68683-29-4	5-25
Fused Silica	60676-86-0	4-10
3,3-(Oxybis(2,1-ethane-diyloxy))bis-1-propylamine	4246-51-9	2-8
Benzyl alcohol	100-51-6	2-8
Synthetic Amorphous Silica	67762-90-7	1-5
Imidazole	288-32-4	1-5
Bisphenol A	80-05-7	1-5
N-Aminoethyl piperazine	140-31-8	1-5
Nonyiphenol	25154-52-3	1-5
Triethylene tetramine	112-24-3	<1
Stoddard solvent	8052-41-3	<0.3
Benzyldimethylamine	103-83-3	<1

<sup>\*\*</sup>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. Seek

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immediate medical attention/advice.

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 immediately.

Inhalation

Remove to fresh air. Get medical attention immediately.

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 eye contact may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision, or complete loss of vision. Symptoms of skin contact may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Symptoms of inhalation may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Symptoms of ingestion may include severe mouth, throat, and abdominal pain; nausea, vomiting, and diarrhea; blood in the feces and/or vomitus may also be seen.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

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

Unsuitable Extinguishing Media Water or foam may cause frothing.

### 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.

# 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 Contain and collect with an inert absorbent and place into an appropriate container for

disposal. Spills and releases may have to be reported to Federal and/or local authorities.

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See section 15. Clean up residue with an appropriate organic solvent.

## 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. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. 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.

# 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. Store away from incompatible materials. Protect from

direct sunlight. Keep away from heat.

Incompatible Materials Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fused Silica	•	(vacated) TWA: 0.1 mg/m <sup>3</sup>	-
60676-86-0		respirable dust	
		: (80)/(% SiO2) mg/m³ TWA	
		TWA: 20 mppcf	
Stoddard solvent	TWA: 100 ppm	TWA: 500 ppm	IDLH: 20000 mg/m <sup>3</sup>
8052-41-3		TWA: 2900 mg/m <sup>3</sup>	Ceiling: 1800 mg/m <sup>3</sup> 15 min
		(vacated) TWA: 100 ppm	TWA: 350 mg/m <sup>3</sup>
		(vacated) TWA: 525 mg/m <sup>3</sup>	_

## **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** 

Full-face shield. 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. Wash contaminated clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State** 

Liquid

**Appearance** 

Tan viscous liquid

Odor

slight amine

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Color

Tan

**Odor Threshold** 

Not determined

**Property** 

**Values** 

Not applicable

Not applicable

>= 110 °C / 230 °F > 93 °C / 200 °F

CC (closed cup)

Remarks • Method

Flash Point **Evaporation Rate** 

< 1

Flammability (Solid, Gas)

Melting Point/Freezing Point

**Boiling Point/Boiling Range** 

n/a-liquid

**Upper Flammability Limits** Lower Flammability Limit

Solubility in other solvents

No data available No data available

No data available

Vapor Pressure Vapor Density

No data available

~1.07

Specific Gravity **Water Solubility** 

Negligible

Not determined

No data available No data available

**Auto-ignition Temperature** Decomposition Temperature Kinematic Viscosity **Dynamic Viscosity** 

**Explosive Properties** 

**Partition Coefficient** 

Not determined Not determined >400 centistokes Not determined

(1=Water)

IES-8422H - Inter-Mix 90 Hybrid Panel Bonder (Hardener)

Property Values
Oxidizing Properties Not determined
VOC Content No data available

Density 8.94 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

Keep out of reach of children.

**Incompatible Materials** 

Strong oxidizing agents.

**Hazardous Decomposition Products** 

Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

Eye Contact

Causes serious eye damage.

**Skin Contact** 

May cause an allergic skin reaction. Causes skin irritation. May be harmful in contact with

Remarks • Method

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skin.

Inhalation

Avoid breathing vapors or mists.

Ingestion

Harmful if swallowed.

**Component Information** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,4,6-tri(dimethylaminomethyl)phen ol 90-72-2	= 1000 mg/kg (Rat)	= 1280 mg/kg (Rat)	-
3,3-[Oxybis(2,1-ethane-diyloxy)]bis- 1-propylamine 4246-51-9	= 4290 μL/kg (Rat)	= 2500 μL/kg (Rabbit)	•
Benzyl alcohol 100-51-6	= 1230 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
Imidazole 288-32-4	= 220 mg/kg (Rat)	-	•
Bisphenol A 80-05-7	= 3200 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	*
N-Aminoethyl piperazine 140-31-8	= 2140 mg/kg ( Ret )	= 880 mg/kg (Rabbit)	*
Nonylphenol 25154-52-3	= 580 mg/kg (Rat)	= 2031 mg/kg (Rabbit)	*
Triethylene tetramine 112-24-3	= 2500 mg/kg (Rat)	= 550 mg/kg (Rabbit)	-
Benzyldimethylamine 103-83-3	= 265 mg/kg (Rat)	= 1660 mg/kg ( Rabbit )	•

IES-8422H - Inter-Mix 90 Hybrid Panel Bonder (Hardener)

Information on physical, chemical and toxicological effects

**Symptoms** 

Please see section 4 of this SDS for symptoms.

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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

Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Fused Silica		Group 3		
60676-86-0		<u>'</u>		

Legend

IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Not determined

**Unknown Acute Toxicity** 

54.5% 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
Benzyl alcohol 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lapomis macrochirus mg/L LC50 static	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	23: 48 h water flea mg/L EC50
Imidazole 288-32-4	130: 72 h Desmodesmus subspicatus mg/L EC50 82: 96 h Desmodesmus subspicatus mg/L EC50			341.5: 48 h Daphnia magna mg/L EC50
Bisphenol A 80-05-7	2.5: 96 h Pseudokirchneriella subcapitata mg/L EC50	3.6 - 5.4: 96 h Pimephales promeias mg/L LC50 flow-through 4.0 - 5.5: 96 h Pimephales promeias mg/L LC50 static 4: 96 h Oncorhynchus mykiss mg/L LC50 9.9: 96 h Brachydanio rerio mg/L LC50 static		10.2: 48 h Daphnia magna mg/L EC50 3.9: 48 h Daphnia magna mg/L EC50 9.2 - 11.4: 48 h Daphnia magna mg/L EC50 Static
N-Aminoethyl piperazine 140-31-8	495: 72 h Pseudokirchneriella subcapitata mg/l. EC50	1950 - 2460: 96 h Pimephales promelas mg/L. LC50 flow-through 1000: 96 h Poecilia reticulata mg/L. LC50 semi-static 100: 96 h Oncomynchus mykiss mg/L. LC50 semi-static		32: 48 h Daphnia magna mg/L EC50
Nonylphenol 25154-52-3	0.41: 96 h Pseudokirchneriella subcapitata mg/L EC50 1.3: 72 h Desmodesmus subspicatus mg/L EC50	0.135; 96 h Pimephales promelas mg/L LC50 flow-through		0.14: 48 h Daphnia magna mg/L EC50 0.17 - 0.21: 48 h Daphnia magna mg/L EC50 Static 0.0874 - 0.124: 48 h Daphnia magna mg/L EC50 semi-static

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Triethylene tetramine 112-24-3	2.5: 72 h Desmodesmus subspicatus mg/L EC50 20: 72 h Pseudokirchneriella subcapitata mg/L EC50 3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50	96 h Pimephales promelas		31.1: 48 h Daphnia magna mg/L EC50
Benzyldimethylamine 103-83-3		35.8 - 39.9: 96 h Pimephales promelas mg/L LC50 flow-through		

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# Persistence/Degradability

Not determined.

### **Bioaccumulation**

Not determined.

# Mobility

Chemical Name	Partition Coefficient	
Benzyl alcohol 100-51-6	1,1	
Imidazole 288-32-4	-0.02	
Bisphenol A 80-05-7	2.2	
N-Aminoethyl piperazine 140-31-8	-1.48	
Nonylphenol 25154-52-3	3.28	
Triethylene tetramine 112-24-3	-1.4	

# 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.

# **US EPA Waste Number**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
2.4.6-tri(dimethylaminomethy		Included in waste stream:		-
l)phenol		K060		
90-72-2				

14. TRANSPORT INFORMATION

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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/NDSL - 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
Reactive Hazard Yes

### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Bisphenol A - 80-05-7	80-05-7	1-5	1.0

### US State Regulations

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Fused Silica 60676-86-0	X	х	
Berizyl alcohol 100-51-6		X	×
Bisphenol A 80-05-7	x	X	x
N-Aminoethyl piperazine 140-31-8	x	х	Х
Nonylphenol 25154-52-3		X	Х
Triethylene tetramine 112-24-3	Х	Х	Х
Stoddard solvent 8052-41-3	х	х	х
Benzyidimethylamine 103-83-3	х		

# **16. OTHER INFORMATION**

NFPA

**Health Hazards** 

Flammability

Instability

Special Hazards

HMIS

Health Hazards Not determined Flammability
Not determined

Physical Hazards
Not determined

None
Personal Protection
Not determined

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

# <u>Disclaimer</u>

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**