

Safety Data Sheet

Issue Date: 15-Aug-2000

Revision Date: 28-Mar-2014

Version 1

1. IDENTIFICATION**Product Identifier****Product Name** 8420 Inter-Mix 60 Metal Panel Bond Hardener**Other means of identification****SDS #** IES-FO8420H**Recommended use of the chemical and restrictions on use****Recommended Use** Panel Adhesive.**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** White viscous liquid**Physical State** Liquid**Odor** Mercaptan**Classification**

Carcinogenicity

Category 2

Signal Word

Warning

Hazard Statements

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**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown Acute Toxicity

80-90% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Polyamid Curing agent	PROPRIETARY	65-75
Mercaptan-Terminated Epoxy Curing Agent	PROPRIETARY	10-15
Benzyl alcohol	100-51-6	1-5
2,4,6-tri(dimethylaminomethyl)phenol	90-72-2	1-5
Silica, fumed	112945-52-5	1-5
Zinc Phosphate	7779-90-0	1-3
Glass Beads	65997-17-3	1-3
Titanium dioxide	13463-67-7	0.1-1.0

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	Provide this SDS to medical personnel for treatment.
Eye Contact	Immediately flush eyes thoroughly with water for at least 15 minutes. Get immediate medical advice/attention.
Skin Contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.
Inhalation	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.
Ingestion	Do not induce vomiting without medical advice. Seek medical attention immediately. Rinse mouth.

Most important symptoms and effects

Symptoms	Mild eye, skin, and/or respiratory irritation. Exposed individuals may experience eye tearing, redness and discomfort. Will cause gastrointestinal tract irritation.
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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

CO₂, dry chemical, foam and water fog.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

Hazardous Combustion Products Nitrogen oxides (NO_x). Oxides of sulfur.

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 Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. 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. Contain with inert material.

Methods for Clean-Up Soak up with inert absorbent material. Place in appropriate containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

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. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep locked up and out of reach of children.

Incompatible Materials Acids, Amines, Mercaptans, Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica, fumed 112945-52-5	-	TWA: 20 Million particles per cubic feet	-
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	-	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³

Appropriate engineering controls

Engineering Controls Mechanical ventilation or local exhaust ventilation is recommended.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side shields or chemical goggles.

Skin and Body Protection Solvent resistant gloves. Wear suitable protective clothing.

Respiratory Protection Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate.

General Hygiene Considerations Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mercaptan
Appearance	White viscous liquid	Odor Threshold	Not determined
Color	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	316 °C / 601 °F	
Flash Point	> 93.33 °C / > 200 °F	
Evaporation Rate	0.01	(Water = 1)
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	9.0	(Air=1)
Specific Gravity	1.06-1.10	(1=Water)
Water Solubility	Slightly soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	

Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

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. Keep out of reach of children.

Incompatible Materials

Acids, Amines, Mercaptans, Strong oxidizing agents.

Hazardous Decomposition Products

HES, AMINES, CO, CO₂, H₂S, SO₂, NO₂.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	May cause temporary irritation on eye contact.
Skin Contact	Prolonged contact may cause redness and irritation.
Inhalation	May cause irritation if inhaled.
Ingestion	May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol 100-51-6	= 1230 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
2,4,6-tri(dimethylaminomethyl)phenol 90-72-2	= 1000 mg/kg (Rat)	= 1280 mg/kg (Rat)	-
Silica, fumed 112945-52-5	= 3160 mg/kg (Rat)	-	-
Zinc Phosphate 7779-90-0	> 5000 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-

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

Carcinogenicity Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Silica, fumed 112945-52-5		Group 3		
Glass Beads 65997-17-3		Group 3		
Titanium dioxide 13463-67-7		Group 2B		X

*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 80-90% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

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 Lepomis 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

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Benzyl alcohol 100-51-6	1.1

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.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
2,4,6-tri(dimethylaminomethyl)phenol 90-72-2		Included in waste stream: K060		

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Zinc Phosphate 7779-90-0	Toxic

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 Not regulated

15. REGULATORY INFORMATION

International Inventories

Not determined

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*

US Federal Regulations

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Zinc Phosphate - 7779-90-0	7779-90-0	1-3	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Phosphate 7779-90-0 (1-3)		X		

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Benzyl alcohol 100-51-6		X	X
Zinc Phosphate 7779-90-0	X		X
Titanium dioxide 13463-67-7	X	X	X

16. OTHER INFORMATION

NFPA

Health Hazards

Flammability

Instability

Special Hazards

HMIS

Not determined

Not determined

Not determined

Not determined

Health Hazards

Flammability

Physical Hazards

Personal Protection

2

1

0

Not determined

Issue Date: 15-Aug-2000
 Revision Date: 28-Mar-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