



MATERIAL SAFETY DATA SHEET

Product Name: EPCON S7

Date prepared: April 2, 2013

Descriptions:

Part A: Hybrid Epoxy Adhesive

Part B: Peroxide Activator

Manufacturer: ITW Red Head · 700 High Grove Blvd, Glendale Heights, IL 60103

Emergency Number: 1-800-424-9300

Ingredients and Exposure Limits:

	CAS Number	%W	TLV (mg/m³)	PEL (mg/m³)	STEL
Part A: Hybrid Epoxy Resin	Proprietary	15%-25%	n/a	n/a	n/a
Vinyl Toluene	25013-15-4	10%-15%	n/a	480 mg/m ³	483 mg/m ³
Mixed acrylate esters	Proprietary	1%-5%	n/a	n/a	n/a
Crystalline Silica ¹	14808-60-7	40%-60%	0.05 mg/m ³ TWA	10 mg/m ³	n/a
Part B: Dibutyl Phthalate	84742	10%-20%	5 mg/m ³	5 mg/m ³	5 mg/m ³
Benzoyl Peroxide	94360	10%-20%	5 mg/m ³	5 mg/m ³	5 ppm
Crystalline Silica ¹	14808-60-7	40%-60%	0.05 mg/m ³ TWA	10 mg/m ³	n/a

Abbreviations: TLV = ACGIH Threshold Limit Value PEL = OSHA Permissible Exposure

STEL = Short Term Exposure Limit

n/a = Not Applicable

¹ Silicate dusts are completely encapsulated in liquid or polymer and are only expected to be encountered during drilling or sanding of the cured product.

Physical Properties:

	Part A: Beige Paste	Part B: Grey Paste
Specific Gravity	= 1.80 g/cm ³ (at 20° C)	= 1.60 g/cm ³ (at 20° C)



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Boiling Point	= > 213°F	NE
Water Solubility	None	None
SADT	n/a	137°F (55°C)

Safe Handling Procedures:

Handling Precautions: Keep away from children. Do not get in eyes, skin or on clothing. Wash thoroughly after handling. Avoid breathing vapors. Use only as directed; avoid uncontrolled mixing with other materials, esp. polymerizable or combustible materials.

Storage: For maximum shelf life, store in cool dry area between 40° to 80° F. Do not store above 110° F. Keep away from heat, sparks, open flame. Exposure to high heat can cause violent reaction. Do not store near combustibles.

Spill Procedures: Collect with an absorbent material and place in a container for proper disposal. For large spills, transfer to salvage vessels, and dispose of according to state, local and Federal regulations. Flush area with water to remove residue.

Personal Protection

Ventilation: Use in well ventilated areas. Provide mechanical ventilation in enclosed areas.

Eye protection: Wear safety glasses with side shields.

Skin protection: Impervious butyl rubber gloves recommended.

Respiratory protection: None normally required with normal ventilation. Where ventilation is inadequate to control vapors, use a NIOSH/MSHA air purifying system with an organic vapor cartridge.

Health Information:

Signs and Symptoms of Exposure: Inhalation can cause headache, nausea, dizziness, fatigue, and drowsiness.

Part A: Eye and skin irritant. Possible skin sensitizer.

Part B: Corrosive

Signs and Symptoms of Exposure:

Part A: May be irritating to the eyes, skin, nose and throat. May cause skin sensitization. In applications where vapors (caused by high temperatures) or mists (caused by mixing) are created, breathing may cause a mild burning sensation in the nose, throat and lungs.

Part B: May cause eye and skin burns. Vapors may be irritating. May cause burns if swallowed.



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Medical Conditions Aggravated by Exposure: Eye, skin and respiratory conditions.

First Aid Measures:

Eyes: Flush immediately with water for at least 15 minutes. Get immediate medical attention.

Skin: Wash immediately with soap and water. Launder contaminated clothing before reuse.

Inhalation: If symptoms occur, move to fresh air. Seek medical attention if symptoms persist.

Ingestion: Rinse mouth and then drink large quantities of water. Don't give anything by mouth to an unconscious person. Seek medical attention. Do not induce vomiting unless directed by a physician.

Other: Referral to a physician is recommended if there is any question about the seriousness of the exposure.

Stability and Reactivity:

Stability: Stable at normal temperatures.

Hazardous Polymerization: Will not occur at normal temperatures.

Incompatibility: Strong acids and oxidizing agents.

Decomposition Products: Thermal decomposition can yield CO_x, NO_x, water and carbon.

Conditions to Avoid: Avoid elevated temperatures which may shorten the shelf-life of this product. Avoid open flame.

Fire and Explosion Hazard Information:

Flash point: 127° F

Flammable Limits in air: Lower: 2.1; Upper: 12.5

Extinguishing Media: CO₂, Dry Chemical and Foam.

Special Fire Fighting Procedures: Keep personnel removed and upwind from fire. Use self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel to ignition sources and flash back.

Hazardous products of combustion: Carbon monoxide, carbon dioxide, trace amount of sulfur compounds and smoke.

Regulatory Information:

Hazard Communication: This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

HMIS Codes: Health 2, Flammability 2, Reactivity 2, PPE B



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DOT Shipping Name: Consumer commodity, ORM-D

IMO/IMDG: UN3108, ORGANIC PEROXIDE, TYPE E Solid, Hazard Class 5.2

TSCA Inventory Status: Chemical components are listed on TSCA inventory or exempt as impurities.

SARA Title III, Section 313: This product contains Vinyl Toluene Monomer which is subject to reporting under Section 313 or SARA Title III (40 CFR Part 372).

EPA Waste Code(s): D001

Waste Disposal Methods: Consult with regulatory agencies of your corporate personnel for disposal methods that comply with local, state and federal safety, health and environmental regulations.

Notes: In normal use, the Vinyl Toluene in this product is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC (i.e. Vinyl Toluene) emitted is negligible (< 5%) Actual emissions are a function of substrate and process and should be considered on an individual basis.

Canadian regulations: WHMIS hazard classes: B2, C, D2A, and D2B

Canadian EPA: All ingredients are listed on the DSL or are exempt as impurities.

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