

ISSI Binary FIB Pressure-Sensitive Paint: CCTE-xxx

MATERIAL SAFETY DATA SHEET

Section I: Manufacturer's Name/Contact Information

Company's Name: Innovative Scientific Solutions, Inc.
Company's Street: 7610 McEwen Road
Company's City: Dayton
Company's State: OH
Company's Country: US
Company's Zip Code: 45459
Company's Emergency Ph#: 1-800-535-5053
Company's Information Ph#: 937-630-3012
Company Contact: Alan Forlines
Date MSDS Prepared: 12 August 2013 (this version supercedes all previous)

Section II: Ingredients/Identity Information

<u>Name</u>	<u>CAS Registry #</u>
1,2,4-trimethyl benzene	95-63-6
1,3,5-trimethyl benzene	108-67-8
1,6-hexamethylene diisocyanate	822-06-0
2-ethylhexyl acetate	103-09-3
2-methyl butyl acetate	624-41-9
4-chlorobenzotrifluoride	98-56-6
Acetic acid ester	90438-79-2
Acetone	67-64-1
Acrylic copolymer	NotAvail
Acrylic polymer-A	NotAvail
Acrylic polymer-B	170475-04-4
Acrylic polymer-C	32458-06-3
Acrylic polymer-D	573987-01-6
Acrylic polymer-E	69215-54-9
Acrylic polymer-F	69777-18-0
Acrylic resin	NotAvail
Aliphatic polyisocyanate resin	28182-81-2
Aromatic hydrocarbon-A	64742-94-5
Aromatic hydrocarbon-B	64742-95-6
Butyl acetate	123-86-4
Cumene	98-82-8
Ethyl 3-ethoxy propionate	763-69-9
Ethyl acetate	141-78-6
Ethylbenzene	100-41-4 7
Ethylene glycol monobutyl ether acetate	112-07-2
Isophorone diisocyanate homopolymer	53880-05-0
Methyl acetate	79-20-9
Methyl amyl ketone	110-43-0
Methyl ethyl ketone	78-93-3
Methyl isobutyl ketone	108-10-1
N-pentyl propionate	624-54-4
Naphthalene	91-20-3
Organoclay	68911-87-5
Polyester resin-A	NotAvail
Polyester resin-B	129922-22-1

Primary amyl acetate	628-63-7
Propylene glycol monomethyl ether acetate	108-65-6
Substituted benzotriazole	127519-17-9
Synthetic resin	Not Avail
Toluene	108-88-3
Xylene	1330-20-7

Section III: Physical/Chemical Characteristics

Evaporation rate Slower than Ether
Water solubility NIL
Vapour density Heavier than air
Approx. Boiling Range (_C) 55 – 149 _C
Approx. Freezing Range (_C) -99 – 203 _C
Gallon Weight (lbs/gal) 7.17704 - 9.03807
Specific Gravity 0.86 - 1.08
Percent Volatile By Volume 33.17 - 97.16
Percent Volatile By Weight 28.08 - 96.28
Percent Solids By Volume 2.84 - 66.83
Percent Solids By Weight 3.72 - 71.92

Section IV: Fire and Explosion Hazard Data

Flash Point (Closed Cup):

See Section 11 for exact values.

Flammable Limits: LFL 0.5 % UFL 16 %

Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

Section V: Reactivity Data

Stability:

Stable

Incompatibility (materials to avoid):

None reasonably foreseeable

Hazardous decomposition products:

CO, CO₂, smoke, and oxides of any heavy metals that are reported in “Composition, Information on Ingredients” section.

Hazardous Polymerization:

Will not occur.

Sensitivity to Static Discharge:

For flammable materials (flashpoint less than 38 deg C or 100 deg F) and combustibles (flashpoint between 38- 93 deg C or 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to Mechanical Impact:

None known.

Section VI: Health Hazard Data

Potential Health Effects:

Inhalation:

May cause nose and throat irritation. May cause nervous system depression, characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion:

May result in gastrointestinal distress.

Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

First Aid Procedures:

Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

Skin or eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

Section VII: Precautions for Safe Handling and Use

Observe label precautions. If combustible (flashpoint between 38-93 deg C or 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 38 deg C or 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than - 8 deg C or 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 49 deg C or 120 deg F. If product is waterbased, do not freeze.

Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Handling and processing operations should be conducted in accordance with best practices (e.g.NFPA-654).

8. Exposure controls/personal protection

Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

