



Material Safety Data Sheet

Revision Date: 01-Mar-2013

Revision Number: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name INSL-GUARD EPOXY POOL COATING - COMPONENT A
Product Code IG4000-SERIES
Product List IG40010, IG40100, IG40200, IG40240, IG40420
Product Class FINISH COATING
Color All

Manufacturer Complementary Coatings Corp.
 dba Insl-X
 101 Paragon Drive
 Montvale, NJ 07645
 Phone: (800)-225-5554
 www.insl-x.com

Emergency Telephone Number(s)
 CHEMTREC: 800-424-9300

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Polyamide polymer		40
Titanium dioxide	13463-67-7	40
Polyamine adduct		30
Kaolin	1332-58-7	25
Xylene	1330-20-7	20
Solvent naphtha, petroleum, light aromatic	64742-95-6	10
Propylene glycol monomethyl ether	107-98-2	10
1,2,4-Trimethylbenzene	95-63-6	5
Ethyl benzene	100-41-4	5
Propylene glycol monomethyl ether acetate	108-65-6	5
2-Pentanone, 4-methyl-	108-10-1	5
Triethylenetetramine	112-24-3	5
Silica, amorphous	7631-86-9	5
Carbon black	1333-86-4	5
Copper chlorophthalocyanine	12239-87-1	5
2-Butoxyethanol	111-76-2	0.5

3. HAZARDS IDENTIFICATION

Emergency Overview

DANGER

Flammable. Vapors may cause flash fire. Harmful if swallowed. Vapor harmful. Harmful by inhalation. Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis.. May cause allergic skin reaction.. May cause allergic respiratory reaction.

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components.

Appearance liquid

Odor Not available

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes

Avoid contact with eyes. Contact with eyes may cause irritation. Severe eye irritation. Risk of serious damage to eyes.

Skin

Avoid contact with skin. Irritating to skin. Harmful in contact with skin. May cause skin irritation and/or dermatitis. May cause skin sensitization. May be absorbed through the skin in harmful amounts.

Inhalation

Harmful by inhalation. Avoid breathing vapors or mists. Irritating to respiratory system. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects. May cause respiratory sensitization. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death. May cause effects similar to those listed under "Inhalation."

Chronic Effects

Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause kidney damage. May cause liver damage.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Skin disorders. Asthma and other respiratory disorders. Kidney disorders. Auditory system disorders. Pre-existing heart disorders.

HMIS

Health: 2*

Flammability: 3

Reactivity: 0

PPE: -

HMIS Legend

0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard
X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

4. FIRST AID MEASURES

General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.. May cause allergic respiratory reaction. May cause allergic skin reaction.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Call a physician immediately.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Call a physician immediately
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.
Notes To Physician	Treat symptomatically. Effects of contact or inhalation may be delayed.
Protection Of First-Aiders	Use personal protective equipment

5. FIRE-FIGHTING MEASURES

Flammable Properties	Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire.
Suitable Extinguishing Media	Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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.

Specific Hazards Arising From The Chemical	Flammable. Closed containers may rupture if exposed to fire or extreme heat. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.
Sensitivity To Mechanical Impact	No
Sensitivity To Static Discharge	Yes
Flash Point Data	
Flash Point (°F)	80
Flash Point (°C)	27
Flash Point Method	PMCC
Flammability Limits In Air	
Lower Explosion Limit	Not available
Upper Explosion Limit	Not available

NFPA Health: 2 Flammability: 3 Instability: 0 Special: -

NFPA Legend

- 0 - Not Hazardous
- 1 - Slightly
- 2 - Moderate
- 3 - High
- 4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Deny entry to unauthorized and unprotected personnel.. Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment..
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
Methods For Clean-Up	Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.
Other Information	None known

7. HANDLING AND STORAGE

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Handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur..

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.. Keep away from direct sunlight.

Technical measures/Precautions

Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.

Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	OSHA
Polyamide polymer	N/E	N/E
Titanium dioxide	10 mg/m ³ - TWA	15 mg/m ³ - TWA total
Polyamine adduct	N/E	N/E
Kaolin	2 mg/m ³ - TWA	15 mg/m ³ - TWA total 5 mg/m ³ - TWA
Xylene	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 435 mg/m ³ - TWA
Solvent naphtha, petroleum, light aromatic	N/E	N/E
Propylene glycol monomethyl ether	100 ppm - TWA 150 ppm - STEL	N/E
1,2,4-Trimethylbenzene	N/E	N/E
Ethyl benzene	20 ppm - TWA	100 ppm - TWA 435 mg/m ³ - TWA
Propylene glycol monomethyl ether acetate	N/E	N/E
2-Pentanone, 4-methyl-	50 ppm - TWA 75 ppm - STEL	100 ppm - TWA 410 mg/m ³ - TWA
Triethylenetetramine	N/E	N/E
Silica, amorphous	N/E	- (80)/(%) SiO ₂ mg/m ³ TWA 20 mppcf - TWA
Carbon black	3.5 mg/m ³ - TWA	3.5 mg/m ³ - TWA
Copper chlorophthalocyanine	N/E	N/E

2-Butoxyethanol	20 ppm - TWA	240 mg/m ³ - TWA 50 ppm - TWA prevent or reduce skin absorption
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Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
 OSHA - Occupational Safety & Health Administration Exposure Limits
 N/E - Not Established

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields. If splashes are likely to occur, wear:. Tightly fitting safety goggles. Face-shield.

Skin Protection

Long sleeved clothing. Protective gloves.. Chemical resistant apron. Antistatic boots.

Respiratory Protection

Use only with adequate ventilation. In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Odor	Not available
Density (lbs/gal)	9.0 - 12.6
Specific Gravity	1.1 - 1.5
pH	Not available
Viscosity (centistokes)	Not available
Evaporation Rate	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Wt. % Solids	65 - 80
Vol. % Solids	55 - 70
Wt. % Volatiles	20 - 35
Vol. % Volatiles	30 - 45
VOC Regulatory Limit (g/L)	< 340
Boiling Point (°F)	237
Boiling Point (°C)	114
Freezing Point (°F)	Not available
Freezing Point (°C)	Not available
Flash Point (°F)	80
Flash Point (°C)	27
Flash Point Method	PMCC
Upper Explosion Limit	Not available
Lower Explosion Limit	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions. Hazardous polymerisation does not occur.
Conditions To Avoid	Keep away from open flames, hot surfaces, static electricity and sources of ignition. Sparks. Elevated temperature.
Incompatible Materials	Incompatible with strong acids and bases and strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors.
Possibility Of Hazardous Reactions	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product

Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Component

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)
LD50 Dermal: > 10000 mg/m³ (Rabbit)
LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

Kaolin

LD50 Oral: > 5000 mg/kg (Rat)

Xylene

LD50 Oral: 4300 mg/kg (Rat)
LD50 Dermal: > 1700 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)
Sensitization: No sensitizing effects known.

Solvent naphtha, petroleum, light aromatic

LD50 Oral: 8400 mg/kg (Rat)

Propylene glycol monomethyl ether

LD50 Oral: 6,600 mg/kg (Rat)
LD50 Dermal: 13,000 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 10,000 ppm (Rat)

1,2,4-Trimethylbenzene

LD50 Oral: 5000 mg/kg (Rat)
 LC50 Inhalation (Vapor): 18000 mg/m³ (Rat, 4 hr.)

Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)
 LD50 Dermal: > 5000 mg/kg (Rabbit)
 LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.)
 Sensitization: No sensitizing effects known.

Propylene glycol monomethyl ether acetate

LD50 Oral: 8532 mg/kg (Rat)
 LD50 Dermal: > 5000 mg/kg (Rabbit)
 LC50 Inhalation (Vapor): > 4345 ppm

2-Pentanone, 4-methyl-

LD50 Oral: 2080-4600 mg/kg (Rat)
 LC50 Inhalation (Vapor): 100000 mg/m³

Triethylenetetramine

LD50 Oral: 2500 mg/kg (Rat)
 LD50 Dermal: 805 mg/kg (Rabbit)

Silica, amorphous

LD50 Oral: > 5000 mg/kg (Rat)
 LD50 Dermal: 2,000 mg/kg (Rabbit)
 LC50 Inhalation (Dust): > 2 mg/L

Carbon black

LD50 Oral: > 15400 mg/kg (Rat)
 LD50 Dermal: > 3000 mg/kg (Rabbit)

2-Butoxyethanol

LD50 Oral: 470 mg/kg (Rat)
 LD50 Dermal: 220 mg/kg (Rabbit)
 LC50 Inhalation (Vapor): 2.2 mg/L (Rat, 4 hr.)
 Sensitization: No sensitizing effects known.

Chronic Toxicity

Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen Listed
Titanium dioxide		2B - Possible Human Carcinogen		Listed

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Ethyl benzene	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	2B - Possible Human Carcinogen		Listed
Carbon black		2B - Possible Human Carcinogen		Listed
2-Butoxyethanol	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans			

- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
 IARC - International Agency for Research on Cancer
 NTP - National Toxicity Program
 OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Product

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Component

Acute Toxicity to Fish

No information available

Titanium dioxide

LC50: >1000 mg/L (Fathead Minnow - 96 hr.)

12. ECOLOGICAL INFORMATION

Xylene

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

2-Butoxyethanol

LC50: 1490 mg/L (Bluegill sunfish - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

No information available

Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

No information available

Ethyl benzene

EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

Empty Container Warning

Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Paint
Hazard Class	3
UN-No	UN1263
Packing Group	III

ICAO / IATA

Contact the preparer for further information.

IMDG / IMO

Contact the preparer for further information.

15. REGULATORY INFORMATION

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International Inventories

United States TSCA Yes - All components are listed or exempt.
Canada DSL Yes - All components are listed or exempt.

Federal Regulations

SARA 311/312 hazardous categorization

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

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Xylene	1330-20-7	20
1,2,4-Trimethylbenzene	95-63-6	5
Ethyl benzene	100-41-4	5
2-Pentanone, 4-methyl-	108-10-1	5
Copper chlorophthalocyanine	12239-87-1	5
2-Butoxyethanol	111-76-2	0.5

This product may contain trace amounts of (other) SARA reportable chemicals. Contact the preparer for further information.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Xylene	1330-20-7	20
Ethyl benzene	100-41-4	5
2-Pentanone, 4-methyl-	108-10-1	5
2-Butoxyethanol	111-76-2	0.5

This product may contain trace amounts of (other) HAPs chemicals. Contact the preparer for further information.

State Regulations

California Proposition 65

This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Louisiana	Rhode Island
Titanium dioxide	X	X	X		X
Kaolin	X	X	X		X
Xylene	X	X	X		X
Propylene glycol monomethyl ether	X	X	X		X
1,2,4-Trimethylbenzene	X	X	X		
Ethyl benzene	X	X	X		X
2-Pentanone, 4-methyl-	X	X	X		X
Triethylenetetramine	X	X	X		
Silica, amorphous	X	X	X		
Carbon black	X	X	X		X
Copper chlorophthalocyanine		X	X		
2-Butoxyethanol	X	X	X		X

Legend

X - Listed

16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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Disclaimer

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End of MSDS