

# SAFETY DATA SHEET

## Section 1: Identification

**Product Name:** Elemental Coatings Anti-Icing Paint; AI-10, AI-11, AI-12, AI-13, AI-20, AI-21, AI-22, and AI-23

**Chemical Name/Synonyms:** Specialty coating containing various active ingredients plus solvents

**Company:** Elemental Coatings Inc.

UH Technology Park  
5000 Gulf Freeway, Bldg 4, Rm 118,  
Houston, TX, 77023  
www.elementalcoatings.com

**In emergency call 911.**

**For information about this SDS, contact (832) 303-7034; Mon-Fri 9 am – 5 pm CT**

**CHEMTREC: 800-424-9300 (24 hours)**

## Section 2: Hazard(s) Identification

See <https://www.sigmaaldrich.com/safety-center/globally-harmonized.html> for a list of hazard classifications, signal words, hazard statements, pictograms, precautionary statements, and a description of hazards.

**Hazard Classification:** Health, Physical, Environmental

### OSHA Hazards

Flammable liquid, Target Organ Effect, Irritant

### Target Organs

Peripheral nervous system, kidney, testes.

**Signal Word(s):** Danger

### Hazard Statements:

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 + H320 Causes skin and eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H371 May cause damage to organs.

H401 Toxic to aquatic life.

### Pictograms:



### Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No Smoking.

P260 Do not breathe dust/fumes/gas/mist/vapors/spray

P281 Use personal protective equipment as required.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

Section 3: Composition/ Information on Ingredients			
Chemical Name	Synonym	CAS#	Conc. (wt%)
Hexanes		110-54-3	20
Xylenes		1330-20-7	15
Tert-butyl acetate	TBA	540-88-5	15
Polydimethylsiloxane and fillers and auxiliaries and acetoxy silane cross-linker	PDMS		30
Triacetoxy methylsilane		4253-34-3	<2.0
Proprietary non-hazardous ingredients			18
Section 4: First-Aid Measures			
<p><b>After skin contact:</b> Wash thoroughly with soap and water.</p> <p><b>After eye contact:</b> Flush eyes immediately with plenty of water for at least 15 minutes and get medical attention.</p> <p><b>After inhalation:</b> If affected by inhalation of vapor or spray mist, remove to fresh air.</p> <p><b>After swallowing:</b> If swallowed, seek immediate medical attention.</p>			
Section 5: Fire-Fighting Measures			
<p><b>Suitable extinguishing agents:</b> Use Carbon dioxide, foam, and/or chemical powder to extinguish any fire caused by the mixture. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapors and protect those trying to stem the leak.</p> <p><b>Special hazards arising from the mixture:</b> Excess pressure may form in containers exposed to fire at risk of explosion. Do not breathe combustion products.</p> <p><b>Special protective equipment for firefighters:</b> Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Collect extinguishing water to prevent it from draining into the sewer system.</p>			
Section 6: Accidental Release Measures			
<p><b>Measures for environmental protection:</b> Avoid leakage into the sewer system or contact with surface water.</p> <p><b>Measures for cleaning/collecting:</b> Ventilate area. Avoid breathing of vapors. Use self-contained breathing apparatus or air mask for large spills in a confined area. Eliminate ignition sources. Remove with inert absorbent and non-sparking tools. Avoid contact with eyes.</p>			
Section 7: Handling and Storage			
<p><b>Handling:</b> Keep away from heat, sparks and naked flame. If not kept in well ventilated areas, vapors might accumulate at ground level and if ignited, will catch fire. Do not eat, drink, or smoke during usage. Avoid leakage of the product into the environment.</p>			



# ELEMENTAL COATINGS

**Storage:** Store only in the original container, with the lid tightly sealed. Keep in well ventilated area. Keep at room temperature 23 °C.

## Section 8: Exposure Controls/Personal Protection

**General protective and hygienic measures:** Wear suitable protective clothing.

**Breathing equipment:** NIOSH-certified organic vapor (black cartridge) respirator.

**Protection of hands:** Handle with gloves.

**Eye protection:** Chemical goggles. Contact lenses should not be worn.

Inhalation: Vapor overexposure may cause drowsiness, injure blood and liver, and may irritate eyes, nose and throat

Skin Contact: On direct contact uncured product or its vapor may cause slight irritation to skin.

Eye Contact: On direct contact uncured product or its vapor may cause slight irritation to eyes.

## Section 9: Physical and Chemical Properties

Appearance: Viscous liquid

Color: Colorless and colorful

Odor: Mild to moderate solvent

Flash Point: -26 deg C

Solubility: Immiscible with water

Auto-ignition temperature: 234 deg C

Explosive properties: No data available

Oxidizing properties: No data available

Freezing point: -60 deg C

Highest working temperature: 80 deg C

## Section 10: Stability and Reactivity

10.1 Conditions to Avoid.

Avoid heating and all sources of ignition.

10.2 Incompatibility.

Information not available.

10.3 Hazardous Decomposition Products.

By fire: CO<sub>2</sub>, CO

10.4 Hazardous Polymerization.

None

10.5 Stability.

Stable in cool condition

10.6 Reactivity.

None

10.7 Possibility of hazardous reactions.

Vapors might form an explosive mixture with air.

## Section 11: Toxicological Information

**Acute toxicity:**

LD50 Oral - rat - 25,000 mg/kg

LC50 Inhalation - rat - 4 h - 48000 ppm

**Potential routes of exposure/potential health effects**

**Skin:**



## ELEMENTAL COATINGS

Corrosion not classified.  
Irritation – rabbit: 500 mg/24H: mild irritant effect.  
**Eye:** Not classified.  
**Inhalation:** Not classified.  
**Ingestion:** Not classified.  
**Carcinogenic effects:** Not classified.  
**Mutagenic effects:** Not classified.  
**Reproductive toxicity:** Not classified.  
**Sensitization:** Not classified.  
**Target organs:** Not classified

TRIMETHOXY (METHYL) SILANE  
LD50 (Oral): >9500 mg/kg (rat)  
LD50 (Dermal): >9500 mg/kg (rat)  
LC50 (Inhalation): >42.1 mg/l/4h (rat)

AMPHOROUS SILICATE HYDRATE  
LD50 (Oral): >2000 mg/kg (rat)  
LD50 (Dermal): >2000 mg/kg (rat)  
LC50 (Inhalation): >2.2 mg/l/1h (rat)

OCTAETHYLTETRACYCLOSILOXANE  
LC50 (Inhalation): > 2975 ppm/4h

### Section 12: Ecological Information (non-mandatory)

Toxicity to fish.  
LC50 - Pimephales promelas (fathead minnow) - 2.5 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates.  
EC50 - Daphnia magna (Water flea) - 3,878.00 mg/l - 48 h

Toxicity to algae.  
EC50 - Chlorella vulgaris (Fresh water algae) - 12,840.00 mg/l - 3 h EC50 - SKELETOMA - 0.30 mg/l - 8 h

### Section 13: Disposal Considerations (non-mandatory)

13.1 Disposal.  
Comply with all Federal, State and Local Regulations for polymers disposing. Re-use when possible.

### Section 14: Transport Information (non-mandatory)

#### Note

Limited quantity This product may be reclassified as Consumer Commodity, ORM-D, when shipped by ground; packaging quantity limitations apply.

DOT

Quarts and gallons ship as limited quantity. UN1263, Paint, 3, III

**MEX**

No data available

**IMDG**

UN1263, Paint, 3, III

**IATA**

UN1263, Paint, 3, III

**Section 15: Regulatory Information (non-mandatory)**

**15.1 Safety, health and environmental regulations.**

**OSHA Hazards**

Flammable liquid, Target Organ Effect, Irritant

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16: Other Information**

**The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.**

**SDS date of preparation/update:** January 2020