ENVIRONMENTAL COATINGS LLC.

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MATERIAL SAFETY DATA SHEET

MSDS ID#: 1002
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Section 1 – Product and Company Identification

Product Name: Environmental Coatings Accelerator

Distributed by:
Environmental Coatings LLC.
4702 E. Virginia Street
Mesa, AZ 85215-9101
(480) 984-7608

24 Hr. Emergency Telephone Number:
Chemtrec: 800-424-9300

Section 2 – Composition/Information on Ingredients

Proprietary blend of tertiary amines and tin mercaptide.

Section 3 – Hazards Identification

Emergency Overview

Physical Appearance: Clear colorless liquid
Immediate Concerns: Combustible liquid. Skin absorption hazard. Irritating to eyes, skin, respiratory system, gastrointestinal system.

Potential Health Effects

Eyes: Can cause severe eye irritation.
Skin: Moderate irritant. Repeated and/or prolonged contact may cause skin rash.
Skin Absorption: Skin absorption hazard. May cause nausea, headache and general discomfort.
Ingestion: Harmful if swallowed.
Inhalation: Vapors or mist, especially as generated from exposure in poorly ventilated areas or confined spaces, are irritating and cause nasal discharge, coughing, and discomfort in nose and throat. Prolonged or repeated overexposure may result in lung damage.
Routes of Entry: Inhalation, skin contact, eye contact, ingestion.
Warning Caution Labels: Combustible liquid. Keep away from ignition sources.

Section 4 –First Aid Measures

Eyes: Gently lift eyelids and flush immediately and continuously with copious amounts of water for at least 15 minutes. Do not allow the individual to rub or keep eyes tightly shut. Consult an ophthalmologist immediately.
Skin: Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash clothing thoroughly before reuse. Discard contaminated leather goods. For severe exposure, seek medical attention immediately. For lesser exposure, seek medical attention if swelling or redness occurs, or if irritation persists after being washed.
Ingestion: DO NOT induce vomiting. Never give anything by mouth to a drowsy or unconscious person. If the individual is conscious, rinse mouth with water. Give 1 to 2 cups of water to drink. Do not give milk, oily products, fat or alcohol. Seek immediate medical attention.

Section 4 –First Aid Measures (continued)

Inhalation: Remove individual from exposure, keep warm and at rest. If breathing is labored, oxygen should be administered by qualified personnel. Apply artificial respiration if breathing has ceased or shows signs of failing. Obtain immediate medical attention.

Section 5 – Fire Fighting Measures

Flash Point and Method: (175°F) Closed Cup
Extinguishing Media: Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning, but it still may be a useful extinguishing agent if carefully applied to the fire.
Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Explosion Hazards: Containers can build up pressure if exposed to heat (fire).
Fire Fighting Procedures: Isolate fuel supply from fire. Use water spray to cool fire-exposed surfaces and containers. Avoid spreading burning liquid with water used for cooling purposes. Fire fighters should wear self-contained breathing apparatus in addition to emergency fire fighting protective clothing.

Section 6– Accidental Release Measures

Small Spill: Eliminate all ignition sources. Wear appropriate personal protective equipment (See Section 8). Absorb with dry chemical absorbent, earth, sand or any other inert material. Do not use combustible materials such as sawdust. Place in a chemical waste container. Move to outside well-ventilated area away from ignition sources.
Large Spill: Eliminate all ignition sources. Evacuate and ventilate the area. Create a dike or trench to contain materials. Prevent entry into waterways, sewers, basements or confined areas. Clean-up personnel should wear appropriate personal protection equipment. (See Section 8) Absorb with dry chemical absorbent, earth, sand or any other inert material. Do not use combustible materials such as sawdust. Using clean non-sparking tools, place in a chemical waste container. Move to outside well-ventilated area and away from ignition sources.
Release Notes: Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.
Special Protective Equipment: See Section 8. Clean-up crews should always wear Personal Protective Equipment.
Comments: Dispose of by any standard method of disposal in accordance with good industrial practice and in compliance with federal, state, and local environmental protection regulations.

Section 7 – Handling and Storage

Precautions: Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Vapors may accumulate and travel to ignition sources distant from the handling site and flash-fire can result.
Handling: Wear proper personal protective equipment. Use in a well ventilated area. Avoid smoking, bare lights, or ignition sources. Keep containers securely sealed when not in use. Avoid physical damage to containers. Practice good hygiene procedures.
Storage: Containers can rupture if exposed to high heat. Do not store near an open flame, heat, or other sources of ignition. Do not store in direct sunlight. Protect from atmospheric moisture. Keep containers sealed in order to avoid contamination. Do not reseal if contaminated. After container has been opened, blanket with nitrogen before resealing. Store indoors in a cool, well-ventilated area.
Storage Temperature: (55°F) minimum to (100°F) maximum **Shelf Life:** 1 year.
Special Sensitivity: Never use welding or cutting torch on or near drums (even empty) because product or residue can ignite explosively.
Electrostatic Accumulation Hazard: Material will accumulate static charges which may cause an electrical spark. Use proper bonding and/or grounding procedures.
Comments: See Section 10 for more information on precautions concerning storage and handling of this material.

Section 8 – Exposure Controls/Personal Protection

Exposure Guidelines: OSHA Hazardous Components (29 CFR 1910.1200)

		Exposure Limits			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m^3	ppm	mg/m^3
Tertiary Amines	TWA	NL	NL	NL	NL
Tin Mercaptide	TWA		0.1[1]		0.1

OSHA Table Comments: NL = Not Listed [1] = Skin, Danger of Cutaneous Absorption

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal Protective Equipment

Eyes and Face: Wear safety glasses with side shields (or goggles) and a face shield.

Skin: The following protective materials are recommended: Gloves – neoprene, nitrile rubber, butyl rubber. Thin latex disposable gloves should be avoided for repeated or long-term use. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.

Respiratory: During application, if exposure of product can exceed the PEL/TLV, use appropriate respiratory protection to protect from overexposure. Appropriate respiratory protection includes approved supplied-air respirators (SAR) operated in a positive pressure mode or, in non-IDLH (immediately dangerous to life and health) atmospheres, NIOSH approved air purifying respirators (APR), provided an appropriate cartridge change-out schedule is implemented. [29 CFR 1910.134 (d)(3)(iii)] All respirators used should follow the OHSA Respiratory Standard 29 CFR 1910.134.

Protective Clothing: Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Work Hygienic Practices: Follow good normal hygiene practices. Avoid contact with skin. Avoid eating, drinking or smoking while using this product. Wash hands thoroughly after use.

Other Use Precautions: Safety showers and eye wash stations should be available. Employees should be trained concerning the safe use of product.

Section 9 – Physical and Chemical Properties

Physical State:	Liquid
Odor:	Mild amine
Appearance:	Clear
pH:	~9
Boiling Point:	Not Determined
Freezing Point:	Not Determined
Solubility in Water:	Slight
Specific Gravity:	.938 to .951 (water=1) at (77°F)
Viscosity:	35 to 60 cps at (77°F)

Section 10 – Stability and Reactivity

Conditions to Avoid: Temperature extremes. Container contamination.

Stability: Stable under recommended storage conditions.

Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, organic acids, tin oxides, nitrogen oxides, silicone oxides, ammonia, aldehydes.

Incompatible Materials: Mineral acids, organic acids, oxidizing agents, reactive metals, sodium or calcium hypochlorite, peroxides, hydroxyls, heat.

Section 11 – Toxicological Information

Ingredient(s)	Oral LD_{50}(rat)	Dermal LD_{50}(rabbit)	Inhalation LC_{50}(rat)
Tin Mercaptide	240 mg/kg	> 1000 mg/kg	not determined

Eye Effects: Strong irritant.
Skin Effects: Moderate irritant.
Carcinogenicity: This product is not classified as carcinogenic by IARC, NTP, or OSHA.
General Comments: No further data.

Section 12 – Ecological Information

General Comments: No data.

Section 13 – Disposal Considerations

Disposal Method: Disposal should be in accordance with local, state, provincial or national regulations.
Empty Container: Empty containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or any other source of ignition. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
RCRA Hazard Class: This material is not a hazardous waste under RCRA 40 CFR 261. The treated waste is not a hazardous material under RCRA 40 CFR 261.
General Comments: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.
Comments: Refer to Section 6 for additional information.

Section 14 – Transport Information

DOT (Department of Transportation)
Proper Shipping Name: Not regulated in non-bulk packaging.
Other Shipping Information: In containers of 119 gallons or less, this product is not regulated for transportation. Bulk containers are regulated as: Combustible liquid, N.O.S. (N-Hexadecyl-N, N-Dimethyl Amine), 3, NA1993, PGIII.
AIR (ICAO/IATA) - Proper Shipping Name: Not regulated
Vessel (IMO/IMDG) - Proper Shipping Name: Not regulated

Section 15 – Regulatory Information

United States
Sara Title III (Superfund Amendments and Reauthorization Act)
311/312 Hazard Categories: Immediate health hazard. Delayed health hazard. Fire hazard.
313 Reportable Ingredients: This product does not contain any chemical components with known CAS numbers that exceed their *de minimis* reporting levels.
CERCLA (Comprehensive Response, Compensation, and Liability Act)
CECLA Regulatory: No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.
TSCA (Toxic Substance Control Act)
TSCA Regulatory: All ingredients are on the TSCA Inventory.
OSHA Hazard Communication Rule: This material is classified as a hazardous material under the criteria outlined in the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200)

Section 16 – Other Information

Prepared by: L.P.

HMIS Rating: Health – *2, Flammability – 2, Physical Hazard – 1
HMIS Rating Notes: If present, the asterisk signifies a chronic health hazard.
Rating system: 0 = low hazard to 4 = high hazard.

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Comments:

Key Legend Information:
ACGIH – American Conference of Governmental Industrial Hygienists
EPA – Environmental Protection Agency
IARC – International Agency for Research on Cancer
NTP – National Toxicology Program
OEL – Occupational Exposure Limit
OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit
STEL – Short Term Exposure Limit
TLV – Threshold Limit Value
TWA – Time Weighted Average