



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name LAM-TB (80-mil PVC-P Sheet)
Version # 01
Issue date 21-August-2013
CAS # Mixture
Manufacturer information CETCO
2870 Forbs Avenue
Hoffman Estates, IL 60192 United States
safety.data@amcol.com
http://www.cetco.com/
General Information (800) 527-9948
CHEMTREC® (800) 424-9300

2. Hazards Identification

Emergency overview Cancer hazard. Some of the components of this product are hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected. May be irritating to eyes.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Eye contact.

Eyes Avoid contact with eyes. May cause eye irritation.

Skin Avoid contact with the skin.

Inhalation May cause cancer by inhalation. Prolonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray.

Ingestion Do not ingest.

3. Composition / Information on Ingredients

Components	CAS #	Percent
POLYVINYLCHLORIDE	9002-86-2	100

Constituents	CAS #	Percent
Organic Plasticizers	N/A	<= 45
Antimony	7440-36-0	<= 3.5
Petroleum distillates, hydrotreated light	64742-47-8	<= 2.5
Chrome yellow (Lead chromate pigment)	1344-37-2	<= 2

Composition comments Occupational Exposure Limits for constituents are listed in Section 8.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Skin contact Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if symptoms occur.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms occur.

Ingestion

Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If ingestion of a large amount does occur, call a poison control center immediately.

Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

5. Fire Fighting Measures**Flammable properties**

The product is not flammable. No unusual fire or explosion hazards noted.

Extinguishing media**Suitable extinguishing media**

Water. Water spray. Foam. Carbon dioxide (CO2). Powder.

Fire fighting equipment/instructions

In the event of fire, cool tanks with water spray.

Specific methods

Cool containers exposed to flames with water until well after the fire is out.

6. Accidental Release Measures**Personal precautions**

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage**Handling**

Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Handle and open container with care.

Storage

Keep container tightly closed. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection**Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
POLYVINYLCHLORIDE (9002-86-2)	TWA	1 mg/m3	Respirable fraction.

Constituents

Constituents	Type	Value
Antimony (7440-36-0)	TWA	0.5 mg/m3

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
POLYVINYLCHLORIDE (9002-86-2)	STEL	5 ppm
	TWA	1 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Constituents	Type	Value
Antimony (7440-36-0)	PEL	0.5 mg/m3

Exposure guidelines**US OSHA Specifically Regulated Substances: Action level and Reference**

POLYVINYL CHLORIDE (EXCLUDING FABRICATED PRODUCT) [LIMITS EXPRESSED AS VINYL CHLORIDE MONOMER] (CAS 9002-86-2) 0.5 ppm

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection	Avoid contact with eyes. Chemical goggles are recommended. Eye wash fountain is recommended.
Skin protection	Wear protective gloves.
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA).
General hygiene considerations	Avoid contact with eyes. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Not available.
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	1.406040604 estimated
Relative density	Not available.
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Other data	
Density	1.41 g/cm ³ estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	None under normal conditions.
Incompatible materials	Not available.
Hazardous decomposition products	Hydrogen chloride.

11. Toxicological Information

Toxicological data

Constituents	Species	Test Results
Chrome yellow (Lead chromate pigment) (1344-37-2)		
Acute		
<i>Oral</i>		
LD50	Rat	5000.0001 mg/kg
Petroleum distillates, hydrotreated light (64742-47-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2000.0001 mg/kg
<i>Inhalation</i>		
LC50	Rat	5.2001 mg/l/4h

Constituents	Species	Test Results
Oral LD50	Rat	5000.0001 mg/kg
Antimony (7440-36-0)		
Acute		
Oral LD50	Rat	7000 mg/kg
Other LD50	Guinea pig	150 mg/kg
	Rat	100 mg/kg

* Estimates for product may be based on additional component data not shown.

Local effects May be irritating to eyes.
Chronic effects Hazardous by OSHA criteria. Prolonged inhalation may be harmful.
Carcinogenicity Hazardous by OSHA criteria.

ACGIH Carcinogens

POLYVINYLCHLORIDE (CAS 9002-86-2) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

POLYVINYLCHLORIDE (CAS 9002-86-2) 3 Not classifiable as to carcinogenicity to humans.

US OSHA Hazard Categories (1)

POLYVINYLCHLORIDE (CAS 9002-86-2) Cancer

12. Ecological Information

Ecotoxicological data

Constituents	Species	Test Results
Chrome yellow (Lead chromate pigment) (1344-37-2)		
Fish LC50	Fish	10000.0001 mg/L, 96 Hours
Petroleum distillates, hydrotreated light (64742-47-8)		
Fish LC50	Fish	45 mg/L, 96 Hours
Aquatic		
Fish LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
Antimony (7440-36-0)		
Aquatic		
Fish LC50	Sheepshead minnow (Cyprinodon variegatus)	6.2 - 8.3 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products Not applicable.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated.

DEA Essential Chemical Code Number

Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Antimony (CAS 7440-36-0) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Antimony (CAS 7440-36-0) Listed.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - New Jersey RTK - Substances: Listed substance

Antimony (CAS 7440-36-0) Listed.
POLYVINYLCHLORIDE (CAS 9002-86-2) Listed.

US - Pennsylvania RTK - Hazardous Substances: All compounds of this substance are considered environmental hazards

Antimony (CAS 7440-36-0)

LISTED

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Antimony (CAS 7440-36-0)

Listed.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1*

Flammability: 0

Physical hazard: 0

NFPA ratings

Health: 1

Flammability: 0

Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

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This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Ingredients