



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: PCH-12

April 14, 2010

Vishay Measurements Group, Inc.
Post Office Box 27777
Raleigh, NC 27611

919-365-3800

CHEMTREC 1-800-424-9300 (U.S.)
703-527-3887 (Outside U.S.)

NOTE: CHEMTREC numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS NUMBER	CHEMICAL IDENTITY	%
8001-79-4	Ricinus Oil/Castor Oil	76.9
7429-90-5	Aluminum	>22.2
57-11-4	Stearic Acid	<0.9
7440-21-3	Silicon	<0.3
7439-89-6	Iron	<0.2

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

Inhalation: Yes Skin: Yes Ingestion: Yes

Health Hazards (Acute and Chronic): Causes gastrointestinal distress and diarrhea when ingested. Possible skin irritant.

Carcinogenicity:	NTP:	Not listed
	IARC Monographs:	Not listed
	OSHA Regulated:	Not listed

Signs and Symptoms of Exposure:

INHALATION: Under normal conditions of use, no adverse effects are expected.

EYE CONTACT: No adverse effects are expected following incidental contact with the ocular tissue.

SKIN CONTACT: Irritation can possibly occur following prolonged or repeated contact.

INGESTION: Can cause nausea, vomiting, and gastrointestinal upset (diarrhea).

Conditions Generally Aggravated by Exposure: Exposure to this product is not expected to contribute to, worsen, or aggravate any existing medical conditions.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES
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INHALATION: Exposure by inhalation does not normally produce adverse effects. Therefore medical attention is not usually required.

EYE CONTACT: Flush eyes with water for at least 15 minutes. If irritation develops consult a physician.

SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area with mild soap and plenty of water. If irritation develops, consult a physician. Wash contaminated clothing before reuse.

INGESTION: Call a poison control center, emergency room, or physician. Unless advised otherwise, induce vomiting by giving either Syrup of Ipecac followed by 2 glasses of water or by sticking finger down throat. If the person is drowsy or unconscious, do not give anything by mouth or leave alone. Never give anything to drink to a person who is convulsing or has no gag reflex. Loosen tight fitting clothing, clear the air way, and keep the person warm.

NOTE TO PHYSICIAN: Treatment should be directed at preventing absorption, administering to the symptoms as they occur, and providing supportive therapy.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA
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Flash Point (Method Used): >200°F (93°C) Setaflash closed cup.

Flammable limits: LEL: NA UEL: NA

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, halon, water spray, or foam. For large fires, use water spray, fog, or alcohol foam.

Special Firefighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full faceshield operated in positive pressure mode. Move containers from fire area if it can be done safely. Use water to keep fire exposed containers cool.

Unusual Fire and Explosion Hazards: None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Stop discharge and contain spill or contaminated material using a dike or barrier. If a substantial quantity is spilled and can be pumped, recover with pumping equipment or a vacuum truck. Use an absorbent material such as Fullers earth, clay or other absorbent. Place contaminated material in a suitable container for further handling and disposal. Do not flush to sewer, stream, or other bodies of water.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Respiratory protection is not usually required under normal conditions of use.

Ventilation: Minimize exposure by providing adequate ventilation. General (dilution) ventilation may be acceptable. However, local exhaust ventilation is recommended when vapors, mists, or dusts can be released.

Protective Gloves: Chemical resistant gloves.

Eye Protection: Chemical splash goggles or safety glasses with side shields. Contact lenses should not be worn.

Other Protective Clothing or Equipment: This product is not expected to present significant dermal hazard. However, skin exposure should be minimized as good industrial practice.

Work / Hygienic Practices: Wash thoroughly after handling, especially before eating, drinking, smoking, or using restroom facilities. Contaminated clothing and shoes should be thoroughly cleaned and dried before reuse.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store in a cool, dry, well ventilated area. Do not store above 110°F (43°C).

Other Precautions: The container can be hazardous when empty because it can retain product residues. Therefore, do not reuse container for food, clothing, or products for human or animal consumption or where skin contact may occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	595°F (313°C)
Vapor Pressure (mmHg):	>0.1
Vapor Density (Air = 1):	NA
Specific Gravity (H₂O = 1):	0.959
Melting Point:	NA
Evaporation Rate (BuAc = 1):	NA
Volatile Organic Compounds:	<1%
Solubility in Water:	Insoluble

Appearance and Odor: Aluminum colored liquid; faint, mild odor.

SECTION 10: STABILITY AND REACTIVITY DATA
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Stability: Stable under normal conditions of storage and use.

Conditions to Avoid: High temperatures.

Incompatibility (Materials to Avoid): Oxidizing agents, acids.

Hazardous Decomposition or By-products: If heated to high temperatures, this product may emit smoke, soot, carbon dioxide, and carbon monoxide.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION
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Ricinus Oil/Castor Oil

OSHA PEL:	Not established
ACGIH TLV:	Not established
OTHER:	Not established

Aluminum

OSHA PEL:	5 mg/m ³ (RESPIRABLE DUST/MIST) 15 mg/m ³ (TOTAL DUST)
ACGIH TLV:	5 mg/m ³ (RESPIRABLE DUST/MIST) 10 mg/m ³ (TOTAL DUST)
OTHER:	Not established

Stearic Acid

OSHA PEL:	Not established
ACGIH TLV:	10 mg/m ³ (DUST)
OTHER:	LD ₅₀ INTRAVENOUS (MUSKRAT) 23 mg/kg

Silicon

OSHA PEL:	5 mg/m ³ (RESPIRABLE DUST/MIST) 15 mg/m ³ (TOTAL DUST)
ACGIH TLV:	10 mg/m ³ (TOTAL DUST)
OTHER:	LD ₅₀ ORAL (RAT) 3160 mg/kg

Iron

OSHA PEL:	10 mg/m ³ (RESPIRABLE DUST/MIST)
ACGIH TLV:	5 mg/m ³ (RESPIRABLE DUST/MIST)
OTHER:	Not established

SECTION 12: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with all local, state, and federal environmental regulations.

SECTION 13: TRANSPORTATION INFORMATION

SHIPPING NAME	CLASS	PACKING GROUP	UN NUMBER
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Not regulated.

SECTION 14: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION:

This product contains a toxic chemical or chemicals (as listed below) subject to the reporting requirements of Section 313 Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
7429-90-5	Aluminum	22.2

TSCA NOTIFICATION:

All components of this product are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA).

SECTION 15: OTHER INFORMATION

To the best of our knowledge, the information provided above meets the requirements of the United States Occupational Safety and Health Act and regulations established under 29 CFR 1910.1200 (g)(2)(c)(1)-(4) for a mixture of hazardous chemicals which has not been tested as a whole. The data provided on this Material Safety Data Sheet is from manufacturers of the original components. Micro-Measurements specifically disclaims any and all form of liability and/or responsibility for the application of this product.