

SAFETY DATA SHEET



Revision: 1.1 Date: 20.05.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010

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PCH-12

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Product Name PCH-12
Chemical Name Mixture
CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified Use(s) Photostress® measurements.
Uses Advised Against None known.
- 1.3 Supplier's details**
Company Identification Vishay Measurements Group, Inc.
Post Office Box 27777
Raleigh, NC 27611
USA
Telephone 919-365-3800
Fax 919-365-3945
E-Mail (competent person) mm.us@vishaypg.com
- 1.4 Emergency Phone No.** 1-800-424-9300 (U.S.)
CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- GHS Classification** Not classified as dangerous for supply/use.
- 2.2 Label elements** According to GHS Classification
- Product Name PCH-12
- Hazard Pictogram(s) None assigned.
- Signal Word(s) None assigned.
- Hazard Statement(s) None assigned.
- Precautionary Statement(s) None assigned.
- 2.3 Other hazards** None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Substances in preparations / mixtures

3.2 Mixtures

GHS Classification

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
Ricinus Oil/Castor Oil	>75	8001-79-4	232-293-8	Not classified.
Aluminum	>20	7429-90-5	231-072-3	Flam. Sol. 1; H228
Stearic Acid	<1	57-11-4	200-313-4	Not classified.
Silicon	<1	7440-21-3	231-130-8	Not classified.
Iron	<1	7439-89-6	231-096-4	Not classified.

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4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Skin Contact

Eye Contact

Ingestion

Unlikely route of exposure.

Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.

Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists, get medical advice/attention.

Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.

Do not induce vomiting. If symptoms persist, obtain medical attention.

None known.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Unsuitable extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Do not use water jet. May spread fire.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire giving off toxic fumes.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable gloves if prolonged skin contact is likely. Wash hands thoroughly after handling.

6.2 Environmental precautions

Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Clean up spill immediately. Wipe up remainder then remove to safe place.

Transfer to a container for disposal. Recover or recycle if possible.

6.4 Reference to other sections

See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear suitable gloves if prolonged skin contact is likely. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

Storage life

Incompatible materials

Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition and direct sunlight.

Ambient. <43 °C

Stable under normal conditions.

Keep away from: Oxidizing agents, Acids. fernhalten.

7.3 Specific end use(s)

Photostress@ measurements.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Not established.

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.




8.2 Exposure controls

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8.2.1	Appropriate engineering controls	Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit.
8.2.2	Individual protection measures, such as personal protective equipment (PPE)	Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes.
	Eye/face protection	Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).
		
	Skin protection	Wear impervious gloves (EN374).
		
	Respiratory protection	Normally no personal respiratory protection is necessary.
		
	Thermal hazards	Not applicable.
8.2.3	Environmental Exposure Controls	Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Aluminium Coloured liquid
	Odour	Mild odour
	Odour Threshold	Not available.
	pH	Not established.
	Melting Point/Freezing Point	Not established.
	Initial boiling point and boiling range	313 °C
	Flash Point	>93 °C
	Evaporation Rate	Not available.
	Flammability (solid, gas)	Non-flammable.
	Upper/lower flammability or explosive limits	Not available.
	Vapour pressure	>0.1
	Vapour density	Not available.
	Relative density	0.959 g/cm ³ (H ₂ O = 1)
	Solubility(ies)	Insoluble (Water)
	Partition coefficient: n-octanol/water	Not available.
	Auto-ignition temperature	Not available.
	Decomposition Temperature	Not available.
	Viscosity	Not available.
	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
9.2	Other information	None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4	Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.
10.5	Incompatible materials	Oxidizing agents, Acids.
10.6	Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide.

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11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects (Substances in preparations / mixtures)	
	Acute toxicity	
	Ingestion	Not classified.
	Inhalation	Not classified.
	Skin Contact	Not classified.
	Eye Contact	Not classified.
	Irritation	Not classified.
	Corrosivity	Not classified.
	Sensitisation	Not classified.
	Repeated dose toxicity	Not classified.
	Carcinogenicity	Not classified.
	Mutagenicity	Not classified.
	Toxicity for reproduction	Not classified.
11.2	Other information	NTP: Not Listed IARC Monographs: Not Listed OSHA Regulated: Not Listed

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Not classified as a Marine Pollutant.
12.2	Persistence and degradability	Readily biodegradable.
12.3	Bioaccumulative potential	No data.
12.4	Mobility in soil	The substance may adsorb onto soils and sediments.
12.5	Results of PBT and VPVB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Dispose of contents in accordance with local, state or national legislation.
13.2	Additional Information	None.

14. SECTION 14: TRANSPORT INFORMATION

		ADR/RID / IMDG / IATA
14.1	UN number	Not classified as dangerous for transport.
14.2	Proper Shipping Name	Not classified
14.3	Transport hazard class(es)	Not classified
14.4	Packing group	Not classified
14.5	Environmental hazards	Not classified
14.6	Special precautions for user	Not classified
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not classified

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	None
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16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS), Existing ECHA registration(s) for Aluminum (CAS# 7429-90-5), Stearic Acid (CAS#57-11-4), Silicon (CAS# 7440-21-3), Iron (CAS# 7439-89-6) and the Classification and Labelling Inventory for Ricinus Oil/Castor Oil (CAS# 8001-79-4).

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Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Not classified	None.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
OSHA	Occupational Safety and Health Administration

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.

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