

# Philadelphia Coatings LLC

Americas Office: 6 Georgian Row, The Woodlands, Texas, TX 77380, USA

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E-mail: [info@philacoatings.com](mailto:info@philacoatings.com)

Website: [www.philacoatings.com](http://www.philacoatings.com)



## Safety Data Sheet

### 1. Chemicals and enterprise identification

Product name and code: **PHILATHERMO Silicon PHR-T400**

Application of the substance: Heat resistant coating up to 500°C

Product use: Coating Solvent-borne

Colors: Aluminum, Black, various colors

Supplier/manufacturer: Philadelphia Coatings LLC

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Chemical emergency response numbers: 1-800-255-3924 for Domestic and +1-813-248-0585 for International.

Shipments of hazardous materials within the listed countries should reference ChemTel's in-county phone numbers:

Australia: 1-300-954-583, Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086, Mexico: 01-800-099-0731

### 2. Hazards identification

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 (REACH), Annex II and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Pictograms:



Signal word: Danger

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### Hazard classification (GHS) and indication:

Flammable liquids	Category 2	H225	High flammable liquid and vapour
Flammable liquids	Category 3	H226	Flammable liquid and vapor
Aspiration Hazard	Category 1	H304	May be fatal if swallowed and enters airways
Acute toxicity Oral	Category 4	H302	Harmful if swallowed
Acute toxicity/Inhalation (Dust and Mists)	Category 4	H332	Harmful if inhaled
Skin corrosion/irritation	Category 2	H315	Causes skin irritation
Acute toxicity Dermal	Category 4	H312	Harmful in contact with skin
Serious eye damage/eye irritation	Category 2	H318	Causes serious eye damage
Germ cell mutagenicity	Category 1	H340	May cause genetic effects
Serious eye damage/eye irritation	Category 2	H319	Causes serious eye irritation
Carcinogenicity	Category 1	H350	May cause cancer
Specific target organ toxicity, single exposure	Category 3 (respiratory tract irritation)	H335, H336	May cause respiratory irritation May cause drowsiness or dizziness
Specific target organ toxicity, repeated exposure	Category 1 (respiratory organs, nervous system)	H372	Causes damage to organs through prolonged or repeated exposure
Specific target organ toxicity, repeated exposure	Category 2 (hearing organs)	H373	May cause damage to organs through prolonged or repeated exposure
Aquatic environmental hazard/Long-term	Category 2	H411	Toxic to aquatic life with long lasting effects

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### 3. Ingredient/composition information

Chemical name	Notes	Cas number	EC number	% by weight	Classification
xylene	C	1330-20-7	215-535-7	25-35	Flam. Liq. 3, H226, Acute Tox. 4, H312, Acute Tox. 4, H332 Skin. Irrit. 2, H315 Eye Irrit. 2, H319
Naphtha (petroleum), hydrodesulfurized heavy	H-P-4	64742-82-1	265-185-4	0,25-2,5	Asp. Tox. 1, H304 H340 H350 STOT RE 1, H372
Solvent naphtha (petroleum), light arom.	H-P	64742-95-6	265-199-0	0,1-0,25	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
ethyl benzene	-	100-41-4	202-849-4	3-7	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304
butan-1-ol	-	71-36-3	200-751-6	1-3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin. Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 H336 H372

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

### 4. First-aid measures

**General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

**Skin contact:** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Inhalation:** Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**Ingestion:** If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

### 5. Fire-fighting measures

**Extinguishing media:** Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

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**Extinguishing media not to be used:** Do not use water jet.

**Recommendations:** Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

### 6. Accidental release measures

**Personal precautions:** Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**Spill:** Preferably clean with a detergent. Avoid using solvents.

**Note: see section 8 for personal protective equipment and section 13 for waste disposal.**

### 7. Handling and storage

**Handling:** Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

Electrical equipment should be protected to the appropriate standard.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

When operators, whether spraying or not, must work inside the spray booth, ventilation is unlikely to be enough to control particulates and solvent vapor in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapor concentration has fallen below the exposure limits. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

**Storage:** Store in accordance with local regulations. Observe label precautions.

Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

No smoking. Prevent unauthorized access.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not empty into drains. Keep away from sources of ignition. Keep away from oxidizing agents, strong alkalis, strong acids.

### 8. Exposure controls/personal protection

**Engineering measures:** Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

#### Ingredient name & Occupational exposure limits

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### **Xylene:**

#### **EH40-WELs (12/2011).**

STEL: 441 mg/m<sup>3</sup> 15 minute(s).

STEL: 100 ppm 15 minute(s).

TWA: 220 mg/m<sup>3</sup> 8 hour(s).

TWA: 50 ppm 8 hour(s).

### **Naphtha (petroleum), hydrodesulfurized heavy:**

#### **EH40-WELs (12/2011).**

STEL: 850 mg/m<sup>3</sup> 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 566 mg/m<sup>3</sup> 8 hour(s).

TWA: 100 ppm 8 hour(s).

### **Solvent naphtha (petroleum), light aroma:**

#### **EH40/2005-WEL (12/2011).**

TWA: 125 mg/m<sup>3</sup> 8 hour(s). Form: all forms.

TWA: 25 ppm 8 hour(s). Form: all forms.

### **Ethyl benzene:**

#### **EH40/2005-WELs (12/2011). Absorbed through skin.**

STEL: 552 mg/m<sup>3</sup> 15 minute(s).

STEL: 125 ppm 15 minute(s).

TWA: 441 mg/m<sup>3</sup> 8 hour(s).

TWA: 100 ppm 8 hour(s).

### **Butan-1-ol:**

#### **EH40/2005-WELs (12/2011). Absorbed through skin.**

STEL: 154 mg/m<sup>3</sup> 15 minute(s).

STEL: 50 ppm 15 minute(s).

### **Personal protective equipment**

**Skin and body:** Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

**Hands:** Wear suitable gloves. Recommended, polyvinyl alcohol or nitrile. For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and considers the conditions of use, as included in the user's risk assessment.

**Eyes:** Use safety eyewear designed to protect against splash of liquids.

**Respiratory system:** If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use respiratory mask with charcoal and dust filter when spraying this product.(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter.

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### 9. Physical and chemical properties

**Physical state:** Liquid.

**Odor:** Characteristic.

**Color:** Various colors.

**Flash point:** Closed cup: 28°C (82.4°F)

**Density:** 1.29 g/cm<sup>3</sup>

**Explosion limits:** 0.7 – 11.5%

**Solubility:** Insoluble in the following materials: cold water and hot water.

### 10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7). Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

### 11. Ecological information

#### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
xylene	Mortality	Acute LC50 12000 to 16114 ug/L Fresh water	Fish - Bluegill -Lepomis macrochirus-1.1g	96 hours
Naphtha (petroleum), hydrodesulfurized heavy		Acute EC50 <6.14 mg/L	Daphnia – Daphnia magna	48 hours
		Acute LC50 <2.60 mg/L	Algae -Pseudokirchneriella subcapitata (green algae)	96 hours
		Acute LC50 <8.20 mg/L	Fish - Fathead minnow (Pimephales promelas)	96 hours
Solvent naphtha (petroleum), light aroma	-	Acute EC50 <6.14 mg/L	Daphnia - Daphnia magna	48 hours
	-	Acute LC50 <2.60 mg/L	Algae - Pseudokirchneriella subcapitata (green algae)	96 hours
	-	Acute LC50 <9.22 mg/L	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
ethyl benzene	Population	Acute EC50 7.2 mg/L	Algae	48 hours
	Intoxication	Acute EC50 2.93 mg/L	Daphnia	48 hours
	Mortality	Acute LC50 4.2 mg/L	Fish	96 hours

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### Ecological information

#### Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
Naphtha (petroleum), hydrodesulfurized heavy	-	-	Not readily
Solvent naphtha (petroleum), light arom	-	-	Readily
Butan-1-ol	-	-	Readily

#### Bio accumulative potential

Product/ingredient name	LogKow	BCF	Potential
xylene	3.12	8.1 to 25.9	Low
Solvent naphtha (petroleum), light aroma	0.63	2.5 - 5.8	Low
ethyl benzene	3.6	-	Low
Butan-1-ol	0.88	3	Low

### 12. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements) and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin.

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness in extreme cases and loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Swallowing may cause nausea, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.

Contains: xylene. May produce an allergic reaction.

Product/ingredient name	Result	Species	Exposure
<b>Xylene</b>	Acute LC50 (Inhalation) 20 mg/l	Rat	4 hours
	LD50 (Oral) 4300 mg/kg	Rat	4 hours
	TDLo (Dermal) 4300 mg/kg	Rabbit	4 hours
<b>Solvent naphtha (petroleum), light aroma</b>	LC50 (Inhalation) 6193 mg/m <sup>3</sup>	Rat	4 hours
	LD50 (Dermal) 3160 mg/kg	Rabbit	4 hours
	LD50 (Oral) 3492 mg/kg	Rat	4 hours

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<b>Ethyl benzene</b>	Acute LC50 (Inhalation) 29.08 mg/l LD50 (Oral) 1700 mg/kg	Rabbit	4 hours
<b>Butan-1-ol</b>	LD50 310 mg/kg LD50 (Dermal) 3400 mg/kg	Rat Rabbit	4 hours

### 13. Disposal considerations

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

**European waste catalogue (EWC):** 08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances.

If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

### 14. Transport information

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### International transport regulations

**Proper shipping name:** Paint

**UN Number:** 1263

**Class:** 3

**Packing group:** III

**Label:**



#### **Additional information**

**ADR / RID :** Tunnel restriction code: (D/E)

Hazard identification number: 30

Special provisions: 640E

**IMDG:** Emergency schedules (EmS): F-E, S-E

**IMDG:** Transport in accordance with paragraph 2.2.3.1.5 (applicable to receptacles < 450 liter capacity).

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

### 15. Regulatory information

**EU regulations:** The product is classified and labeled for supply in accordance with EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles: Not applicable.



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Other EU regulations

Europe inventory: At least one component is not listed

Black List Chemicals: Not listed

Priority List Chemicals: Not determined

Industrial emissions (integrated pollution prevention and control) – Air: Listed

Industrial emissions (integrated pollution prevention and control) – Water: Not listed

**Restrictions on the Marketing and Use Directive:** Restricted to professional users.

**Industrial use:** The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

### 16. Other information

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EUH statement = CLP-specific Hazard statement

RRN = REACH Registration Number

**CEPE Classification:** 1

#### Full text of abbreviated H statements referred to in sections 2 and 3:

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapor

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H312 Harmful in contact with skin

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H340 May cause genetic effects

H350 May cause cancer

H372 (hearing organs) Causes damage to organs through prolonged or repeated exposure

H373 (hearing organs) May cause damage to organs through prolonged or repeated exposure. (hearing organs)

H411 Toxic to aquatic life with long-lasting effects

#### Full text of classifications [CLP/GHS]:

Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4

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Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

H340 GERM CELL MUTAGENICITY - Category 1

Carc. 1, H350 CARCINOGENICITY - Category 1

STOT RE 2, H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory organs, nervous system) - Category 2

A STOT RE 2, H373 (hearing organs) SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2

**This Safety Data Sheet is prepared in accordance with according to Regulation (EC) No. 1272/2008 [CLP/GHS].**

### Notice to whom it may concern:

**Your attention and information in this MSDS are based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this MSDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.**