

Philadelphia Coatings LLC

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

Tel: +1 832-948-5588

E-mail: info@philacoatings.com

Website: www.philacoatings.com



Safety Data Sheet

1. Chemicals and enterprise identification

Product name and code: **PHILASHIELD PHE 06/07 - component A**

Application of the substance: **Two component epoxy primer & finish**

Product use: **Coating Solvent-borne**

Colors: **Black, Red, Gray, Aluminum**

Supplier/manufacturer: **Philadelphia Coatings LLC**

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Website: www.philacoatings.com

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 vapour
Acute toxicity Dermal	Category 4	H312	Harmful in contact with skin
Acute toxicity/Inhalation (Dust and Mists)	Category 4	H332	Harmful if inhaled
Skin corrosion/irritation	Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation	Category 2	H319	Causes serious eye irritation
Skin sensitizers	Category 1	H317	May cause an allergic skin reaction
Acute toxicity/Oral	Category 4	H302	Harmful if swallowed
Specific target organ toxicity, single exposure	Category 3 (respiratory tract irritation)	H336	May cause drowsiness or dizziness
Aspiration Hazard	Category 1	H304	May be fatal if swallowed and enters airways
Specific Target Organ toxicity - repeated exposure	Category 2	H373	May cause damage to organs through prolonged or repeated exposure
Carcinogenicity	Category 1	H350	May cause cancer
Carcinogenicity	Category 2	H351	Suspected of causing cancer
Specific target organ toxicity, repeated exposure	Category 1 (respiratory organs, nervous system)	H372	Causes damage to organs through prolonged or repeated exposure
Aquatic environmental hazard/Long-term	Category 2	H411	Toxic to aquatic life with long lasting effects
Aquatic environmental hazard/Long-term	Category 3	H412	Harmful to aquatic life with long lasting effects

3. Ingredient/composition information

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Chemical name	Notes	Cas number	EC number	% by weight	Classification
xylene	C	1330-20-7	215-535-7	5-10	Flam. Liq. 3, H226, Acute Tox. 4, H312, Acute Tox. 4, H332 Skin. Irrit. 2, H315 Eye Irrit. 2, H319
hydrocarbons, c9-unsatd., polymd.		71302-83-5	615-276-3	5-10	Flam. Liq. 2, H225 Flam. Liq. 3, H226 Acute Tox. 4, H312 H332 Skin. Irrit. 2, H315
Epoxy resin (MW700-1200)	-	25036-25-3	-	1-5	Eye Irrit. 2, H319 Skin. Irrit. 2, H315 Skin Sens. 1, H317
Methylstyrenated phenol	6	68512-30-1	270-966-8	5-6	Skin. Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
benzyl alcohol		100-51-6	202-859-9	1-3	Acute Tox. 4, H302 H312 H332 Skin Sens. 1, H317 Carc. 2, H351 Eye Irrit. 2, H319
Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700)		25068-38-6	500-033-5	10-25	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
Ethyl benzene	-	100-41-4	202-849-4	1-3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	H-P	64742-82-1	265-185-4	1-1.4	Asp. Tox. 1, H304 H340 Carc. 1, H350 STOT SE 3, H336 STOT RE 1, H372 Aquatic Chronic 2, H411

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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.

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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, CO₂, powders, water spray.

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, have to work inside the spray booth, ventilation is unlikely to be sufficient 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.

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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 enough to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Ingredient name & Occupational exposure limits

Xylene:

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

STEL: 441 mg/m³ 15 minute(s).

STEL: 100 ppm 15 minute(s).

TWA: 220 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

Methylstyrenated phenol:

EH40/2005-WELs (12/2011).

STEL: 231 mg/m³ 15 minute(s).

STEL: 75 ppm 15 minute(s).

TWA: 150 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

Ethyl benzene:

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

STEL: 552 mg/m³ 15 minute(s).

STEL: 125 ppm 15 minute(s).

TWA: 100 ppm 8 hour(s).

TWA: 441 mg/m³ 8 hour(s).

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

TWA: 525 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(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, gloves (breakthrough time) > 8 hours: Viton, Responder, nitrile rubber, 4H, Teflon.

May be used, gloves (breakthrough time) 4 - 8 hours: neoprene, butyl rubber. Not recommended, gloves (breakthrough time) < 1 hour: polyvinyl alcohol (PVA), PVC. 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 takes into account the particular conditions of use, as included in the user's risk assessment.

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

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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.

9. Physical and chemical properties

Physical state: Liquid.

Odor: Characteristic.

Color: Various colors.

Flash point: Closed cup: 34°C (93.2°F)

Density: 1.54 g/cm³

Explosion limits: 1.1 – 7.0%

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

VOC: 263 g/l

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 -Leptosies macrochirus-1.1g	96 hours
Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700)		Acute EC50 >11 mg/l	Algae	72 hours
		Acute EC50 1.4-1.7 mg/l	Daphnia-Daphnia magna	48 hours
		Acute LC50 3.1 mg/l	Fish - fathead minnow (Pimephales promelas)	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
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		Acute EC50	Algae	72 hours
		Acute IC50	Fish	96 hours
		Acute LC50		

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Ecological information

Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700)			Not readily
Ethyl benzene	-	-	Readily
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	-	Not readily

Bio accumulative potential

Product/ingredient name	LogKow	BCF	Potential
xylene	3.12	8.1 to 25.9	low
Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700)	2.64 - 3.78	31	low
Ethyl benzene	3.6	-	low
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	10 to 2500	high

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: Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700). May produce an allergic reaction.

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Product/ingredient name	Result	Species	Exposure
Xylene	Acute LC50 (Inhalation) 20 mg/l	Rat	4 hours
	LD50 (Oral) 4300 mg/kg	Rat	
	TDL0 (Dermal) 4300 mg/kg	Rabbit	
Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700)	LD50 (Dermal) >2000 mg/kg	Rat	4 hours
	LD50 (Oral) >2000 mg/kg	Rat	
	LD50 (Dermal) >2000 mg/kg	Rabbit	
Ethyl benzene	Acute LC50 (Inhalation) 29.08 mg/l	Rabbit	4 hours
	LD50 (Oral) 1700 mg/kg		

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 2.3.2.5 (applicable to receptacles < 30 liter capacity).

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

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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.

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

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

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H332 Harmful if inhaled

H336 May cause drowsiness or dizziness

H350 May cause cancer

H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure

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

H411 Toxic to aquatic life with long-lasting effects

H412 Harmful to aquatic life with long lasting effects

Full text of classifications [CLP/GHS]:

Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4

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

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

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

Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3

Asp. Tox. 1, H304 ASPIRATION HAZARD - 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

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

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

Carc. 1, H350 MAY CAUSE CANCER - Category 1

Carc. 2, H351 SUSPECTED OF CAUSING CANCER - Category 2

STOT RE 1, H372 DAMAGE TO ORGANS THROUGH PROLONGED/REPEATED EXPOSURE - Category 1

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

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

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.

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1. Chemicals and enterprise identification

Product name and code: **PHILASHIELD PHE 06/07 HARDENER – comp. B**

Application of the substance: **Two component epoxy primer & finish**

Product use: **Coating Hardener / Solvent-borne**

Supplier/manufacturer: **Philadelphia Coatings LLC**

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Pictograms:



Signal word: Danger

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Hazard classification (GHS) and indication:

Flammable liquids	Category 2	H225	High flammable liquid and vapour
Acute toxicity Oral	Category 3	H301	Toxic if swallowed
Acute toxicity Oral	Category 4	H302	Harmful if swallowed
Acute toxicity Dermal	Category 3	H311	Toxic in contact with skin
Acute toxicity Dermal	Category 4	H312	Harmful in contact with skin
Acute toxicity/Inhalation	Category 3	H331	Toxic if inhaled
Acute toxicity/Inhalation (Dust and Mists)	Category 4	H332	Harmful if inhaled
Skin corrosion/irritation	Category 1, Category 2	H314, H315	Causes severe skin burns and eye damage Causes skin irritation
Serious eye damage/eye irritation	Category 1	H318	Causes serious eye damage
Serious eye damage/eye irritation	Category 2	H319	Causes serious eye irritation
Skin sensitizers	Category 1	H317	May cause an allergic skin reaction
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	H372	Causes damage to organs through prolonged or repeated exposure
Specific target organ toxicity, single exposure	Category 1	H370	Causes damage to organs
Reproductive Toxicity	Category 1	H360	May damage fertility or the unborn child
Aquatic environmental hazards/Chronic	Category 2	H411	Toxic to aquatic life with long lasting effects
Aquatic environmental hazards/Chronic	Category 3	H412	Harmful 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
benzyl alcohol	C	100-51-6	202-859-9	25-50	Acute Tox. 4, H302 H312 H332 Eye Dam. 1, H318 Eye Irrit. 2, H319
methanol	-	67-56-1	200-659-6	0.1-1.0	Flam. Liq. 2, H225 Acute Tox. 3, H301 H311 H331 STOT SE 1, H370 Eye Irrit. 2, H319 STOT SE 3, H335 H336 Rep. Tox. 1, H360 STOT RE 1, H372
2,4,6-tris-dimethylamino methyl)-phenol	-	90-72-2	202-013-9	1-2.5	Skin. Irrit. 1, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412
2,2-dimethyl-4,4 methylcyclohexylamine	-	6864-37-5	229-962-1	75-100	Acute Tox. 4, H302 H311 Skin. Irrit. 1, H314 Acute Tox. 3, H331 Aquatic Chronic 2, H411
N-(3-Trimethoxysilyl)prop yl)ethyl -enediamine		1760-24-3	217-164-6	2.5-5.0	Skin. Irrit. 1, H314 Skin. Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318

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, CO₂, 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, have to work inside the spray booth, ventilation is unlikely to be sufficient 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.

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, gloves(breakthrough time) > 8 hours: Viton, Responder, nitrile rubber, 4H, Teflon.

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May be used, gloves (breakthrough time) 4 - 8 hours: neoprene, butyl rubber. Not recommended, gloves (breakthrough time) < 1 hour: polyvinyl alcohol (PVA), PVC. 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 takes into account the particular 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.

9. Physical and chemical properties

Physical state: Liquid.

Odor: Characteristic.

Flash point: Closed cup: 80°C (176°F)

Density: 1.04 g/cm³

Explosion limits: 1.1 – 7%

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
benzyl alcohol		10 mg/l	Lepomis macrochirus (LC50)	96 hours
		460 mg/l	Pimephales promelas (LC50)	96 hours
2,4,6-tris-dimethylamino methyl)-phenol		120 mg/l	Lepomis macrochirus (LC50)	96 hours

Ecological information

Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol	-	-	Readily

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Bio accumulative potential

Product/ingredient name	LogKow	BCF	Potential
benzyl alcohol	1.10	1.4	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.

Product/ingredient name	Result	Species	Exposure
benzyl alcohol	LD50 (Oral) 400 mg/kg	Rat	4 hours
	LD50 (Oral) 2000 mg/kg	Rabbit	
2,2-dimethyl-4,4-methylcyclohexylamine	Acute LC50 420 mg/ml	Rat	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

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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 2.3.2.5 (applicable to receptacles < 30 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.

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

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

H225 Highly flammable liquid and vapor
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H360 May damage fertility or the unborn child
H370 Causes damage to organs
H372 Causes damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long-lasting effects
H412 Harmful to aquatic life with long lasting effects

Full text of classifications [CLP/GHS]:

Acute Tox. 3, H301 ACUTE TOXICITY (oral) - Category 3
Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
Acute Tox. 3, H311 ACUTE TOXICITY (dermal) - Category 3
Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
Skin Irrit. 1, H314 SKIN CORROSION/IRRITATION - Category 1
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3
Eye Irrit. 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
Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
Acute Tox. 3, H331 ACUTE TOXICITY (inhalation) - 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
Rep. Tox. 1, H360 REPRODUCTIVE TOXICITY - Category 1
STOT SE 1, H370 SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE - Category 1

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STOT RE 1, H372 SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE - Category 1

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.