

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: **PHILAGARD PHE 06/04 Comp. A**

Tank, Cargo Coating

Application of the substance: Two component epoxy primer & finish

Product use: Coating Solvent-borne

Colors: Red, Gray, others

Supplier/manufacturer: Philadelphia Coatings LLC

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

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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 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 |
| Serious eye damage/eye irritation | Category 1 | H318 | Causes serious eye damage |
| Specific target organ toxicity, single exposure | Category 3 (respiratory tract irritation) | H335, H336 | May cause respiratory irritation May cause drowsiness or dizziness |
| Aspiration Hazard | Category 1 | H304 | May be fatal if swallowed and enters airways |
| 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 (Mixture of isomers) | C | 1330-20-7 | 215-535-7 | 2-12 | Flam. Liq. 3, H226 , Acute Tox. 4, H312 , Acute Tox. 4, H332 Skin. Irrit. 2, H315 Eye Irrit. 2, H319 |
| Solvent naphtha (petroleum), light arom. | H-P | 64742-95-6 | 265-199-0 | 2.5 | Flam. Liq. 3, H226 STOT SE 3, H335 H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Bisphenol-A-(Chloro methyl) Epoxy resin (MW ≤ 700) | - | 25068-38-6 | 500-033-5 | 15-27 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| 2-methylpropan-1-ol | 6 | 78-83-1 | 201-148-0 | 2-8 | Flam. Liq. 3, H226 Skin. Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 H336 |
| Hydrocarbon resin | - | 71302-91-5 | | 12-25 | Skin. Irrit. 2, H315 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.

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.

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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 using 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).

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2-Methylpropan-1-ol:

EH40/2005-WELs (12/2011).

STEL: 231 mg/m³ 15 minute(s).

STEL: 75 ppm 15 minute(s).

TWA: 154 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

Solvent naphtha (petroleum), light arom:

EH40-WELs (12/2011).

TWA: 125 mg/m³ 8 hour(s).

TWA: 25 mg/m³ 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 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.

9. Physical and chemical properties

Physical state: Liquid.

Odor: Characteristic.

Color: Various colors.

Flash point: Closed cup: 29°C (84.2°F)

Density: 1.50 g/cm³

Explosion limits: 1.1 – 10.9%

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.

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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 |
| Solvent naphtha (petroleum), light arom. | Population Intoxication | Acute EC50 <6.14 mg/L Acute LC50 <2.60 mg/L | Daphnia - Daphnia magna Algae - Pseudokirchneriella subcapitata (green algae) | 48 hours 96 hours |
| | Mortality | Acute LC50 <9.22 mg/L | Fish - Oncorhynchus mykiss (rainbow trout) | 96 hours |

Ecological information

Biodegradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| xylene | - | - | Readily |
| Bisphenol-A-(Chloromethyl) Epoxy resin (MW ≤ 700) | - | - | Not readily |
| Solvent naphtha (petroleum), light arom | - | - | Not readily |

Bioaccumulative 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 |
| Solvent naphtha (petroleum), light arom | - | 10 - 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.

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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.

| 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 | |
| Solvent naphtha (petroleum), light arom | 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:



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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

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:

H226 Flammable liquid and vapor

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

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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

H411 Toxic to aquatic life with long-lasting effects

Full text of classifications [CLP/GHS]:

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

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

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

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

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

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: **PHILAGARD PHE 06/04 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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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 Oral | Category 4 | H302 | Harmful if swallowed |
| Acute toxicity Dermal | Category 4 | H312 | Harmful in contact with skin |
| Aspiration Hazard | Category 1 | H304 | May be fatal if swallowed and enters airways |
| 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 | Cause 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 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 |
|--|-------|------------|-----------|-------------|--|
| xylene | C | 1330-20-7 | 215-535-7 | 10-30 | Flam. Liq. 3, H226, Acute Tox. 4, H312, Acute Tox. 4, H332 Skin. Irrit. 2, H315 Eye Irrit. 2, H319 |
| 2,4,6tris(dimethylaminomethyl)phenol | - | 90-72-2 | 202-013-9 | 1-1.5 | Skin. Irrit. 1, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | C | 2855-13-2 | - | 1-1.4 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin. Irrit. 1, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| ethyl benzene | - | 100-41-4 | 202-849-4 | 5-10 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 |
| butan-1-ol | 6 | 71-36-3 | 200-751-6 | 10-25 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin. Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 H336 STOT RE 1, 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.

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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, 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.

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8. Exposure controls/personal protection

Engineering measures: Provide adequate ventilation. Where reasonably practicable, this should be achieved using 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).

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).

Butan-1-ol:

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

STEL: 154 mg/m³ 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, 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 considers 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: 38°C (100.4°F)

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Density: 0.95 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 |
|-------------------------|---|--|--|----------------------------------|
| xylene | Mortality | Acute LC50 12000 to 16114 ug/L Fresh water | Fish - Bluegill -Lepomis macrochirus- 1.1g | 96 hours |
| Ethyl benzene | Population Intoxication Mortality | Acute EC50 7,2 mg/L Acute EC50 2,93 mg/L Acute LC50 4,2 mg/L | Algae Daphnia Fish | 48 hours 48 hours 96 hours |

Ecological information

Biodegradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene | - | - | Readily |
| Ethyl benzene | - | - | Readily |
| butan-1-ol | - | - | Readily |

Bio accumulative potential

| Product/ingredient name | LogKow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| xylene | 3.12 | 8.1 to 25.9 | 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.

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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 |
|-------------------------|------------------------------------|---------|----------|
| Xylene | Acute LC50 (Inhalation) 20 mg/l | Rat | 4 hours |
| | LD50 (Oral) 4300 mg/kg | Rat | |
| | TDL0 (Dermal) 4300 mg/kg | Rabbit | |
| Ethyl benzene | Acute LC50 (Inhalation) 29.08 mg/l | Rabbit | 4 hours |
| | LD50 (Oral) 1700 mg/kg | | |
| butan-1-ol | LD50 310 mg/kg | Rat | 4 hours |
| | LD50 (Dermal) 3400 mg/kg | Rabbit | |

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:



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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

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 vapor

H226 Flammable liquid and vapor

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

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H315 Causes skin irritation

H317 May cause an allergic skin reaction

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

H372 Cause damage to organs through prolonged or repeated exposure

H373 May cause damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life

Full text of classifications [CLP/GHS]:

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

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

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

Skin. Irrit. 1, H314 SKIN CORROSION/IRRITATION - Category 1

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

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

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

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

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

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

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

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

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.