

- Safety Data Sheet -

1. Chemicals and enterprise identification

Product name and code:

PHILATHANE PHU Cosmetic - Comp. A

Application of the substa	nce: Two component polyurethane finish
Product use:	Coating Solvent-borne
Colors:	White, Black, Red, Gray, Green, Cream, Orange, Yellow, Ivory, various shades.

Supplier/manufacturer:

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

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



Safety Data Sheet

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/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
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, 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



Safety Data Sheet -

3. Ingredient/composition information

Chemical name	Notes	Cas number	EC number	% by weight	Classification
xylene					Flam. Liq. 3, H226, Acute
	С	1330-20-7	215-535-7	12 5 20	Tox. 4, H312, Acute Tox. 4,
	C	1330-20-7	215-555-7	12,5-20	H332, Skin. Irrit. 2, H315 Eye
					Irrit. 2, H319
Naphtha (petroleum),					Asp. Tox. 1, H304 Muta. B,
hydrodesulfurized heavy	H-P-4	64742-82-1	265-185-4	0,25	H340 Carc. B, H350 STOT
					RE 1, H372
Solvent naphtha	Р	64742-95-6	265-199-0	1-2.5	Asp. Tox. 1, H304 Muta. 1,
(petroleum), light arom.	Г	04742-95-0	205-199-0	1-2.5	H340 Carc. 1, H350
ethyl benzene					Flam. Liq. 2, H225
	_	100-41-4	202-849-4	1-3	Acute Tox. 4, H332
	-	100-41-4	202-049-4	1-5	STOT RE 2, H373 (hearing
					organs) Asp. Tox. 1, H304

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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Safety Data Sheet

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.

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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Safety Data Sheet

Naphtha (petroleum), hydrodesulfurized heavy: EH40-WEL (12/2011). STEL: 850 mg/m3 15 minute(s). Form: all forms STEL: 150 ppm 15 minute(s). Form: all forms. TWA: 566 mg/m³ 8 hour(s). Form: all forms. TWA: 100 ppm 8 hour(s). Form: all forms. Solvent naphtha (petroleum), light aroma: EH40-WEL (12/2011). TWA: 125 mg/m³ 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/m³ 15 minute(s). STEL: 125 ppm 15 minute(s). TWA: 441 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.

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: 1.26 g/cm3
Explosion limits: 1.1 – 7.5%
Solubility: Insoluble in the following materials: cold water and hot water.

Phila coatings

Safety Data Sheet -

10. Stability and reactivity

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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

Aquatic ecotoxicity				
Product/ingredient name	Test	Result	Species	Exposure
xylene	Mortality	Acute LC50 12000 to	Fish - Bluegill - Leprosies	96 hours
		16114 ug/L Fresh water	macrochirus - 1,1 g	
Naphtha (petroleum),		Acute EC50 <6.14 mg/L	Daphnia – Daphnia magna	48 hours
hydrodesulfurized heavy		Acute LC50 <2.60 mg/L	Algae -Pseudokirchneriella	96 hours
			subcapitata (green algae)	
		Acute LC50 <8.20 mg/L	Fish - Fathead minnow	96 hours
			(Pimephales promelas)	
Solvent naphtha		Acute EC50 <6.14 mg/L	Daphnia - Daphnia magna	48 hours
(petroleum), light arom.		Acute LC50 <2.60 mg/L	Algae -Pseudokirchneriella	96 hours
			subcapitata (green algae)	
		Acute LC50 <9.22 mg/L	Fish - Oncorhynchus	96 hours
			mykiss (rainbow trout)	
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

Ecological information

Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
ethyl benzene	-	-	Readily
Solvent naphtha	-	-	Readily
(petroleum), light arom.			

Bio accumulative potential

Product/ingredient name	LogKow	BCF	Potential
xylene	3.12	8.1 to 25.9	Low
ethyl benzene	3.6	-	Low
Solvent naphtha	-	10 - 2500	High
(petroleum), light arom.			



Safety Data Sheet -

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
Xylene	Acute LC50 (Inhalation) 20 mg/l	Rat	4 hours
	LD50 (Oral) 4300 mg/kg	Rat	
	TDLo (Dermal) 4300 mg/kg	Rabbit	
Ethyl benzene	Acute LC50 (Inhalation) 29.08 mg/l	Rabbit	4 hours
	LD50 (Oral) 1700 mg/kg		
Solvent naphtha (petroleum), light	LC50 (Inhalation) 6193 mg/m ³	Rat	4 hours
arom.	LD50 (Dermal) 3160 mg/kg	Rabbit	4 hours
	LD50 (Oral) 3492 mg/kg	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.

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

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- Safety Data Sheet -

International transport regulations

	UN	Proper	Transport hazard class(es)	Packing	Environmental	Additional information
	Number	shipping name		group	hazards	
ADR/RID	UN 1263	PAINT	3	Ш	Yes	The environmentally
Class						hazardous substance mark
			× v			is not required when
						transported in sizes of ≤5 L
						or ≤5 kg. Tunnel restriction
						code (D/E)
IMDG/IMO	UN 1263	PAINT	3	Ш	Yes	The marine pollutant mark
Class						is not required when
						transported in sizes of ≤5 L
						or ≤5 kg. Emergency
						schedules (EmS) F-E, S-E
ICAO/IATA	UN 1263	PAINT	3	Ш	Yes	The environmentally
Class						hazardous substance mark
			<u>&</u>			may appear if required by
						other transportation
						regulations.

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.

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Safety Data Sheet

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
H304 May be fatal if swallowed and enters airways
H312 Harmful in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
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)

Full text of classifications [CLP/GHS]:

Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3 Muta. 1, 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 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].

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Safety Data Sheet

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.



- Safety Data Sheet -

1. Chemicals and enterprise identification

Product name and code:

PHILATHANE PHU HARDENER - Comp. B

Application of the substance:	
Product use:	

Two component polyurethane finish Coating Hardener / Solvent-borne

Supplier/manufacturer:

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2. Hazards identification

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Signal word: Danger

Phila coatings

- Safety Data Sheet -

Hazard classification (GHS) and indication:		_	
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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/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
Skin sensitizers	Category 1	H317	May cause an allergic skin reaction
Serious eye damage/eye irritation	Category 2	H319	Causes serious eye irritation
Acute Toxicity Inhalation	Category 3	H331	Toxic if inhaled
Specific target organ toxicity, single exposure	Category 3 (respiratory tract irritation)	H335, H336	May cause respiratory irritation May cause drowsiness or dizziness
Serious eye damage/eye irritation	Category 2B	H320	Causes eye irritation
Germ cell mutagenicity	Category 1	H340	May cause genetic defects
Carcinogenicity	Category 1	H350	May cause cancer
Hazardous to aquatic environment Short term /Acute	Category 3	H402	Harmful to aquatic life

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Safety Data Sheet -

3. Ingredient/composition information							
Chemical name	Notes	Cas number	EC number	% by weight	Classification		
xylene					Flam. Liq. 3, H226, Acute		
	С	1330-20-7	215-535-7	12,5-20	Tox. 4, H312, Acute Tox.		
	C	1550-20-7	215-555-7		4, H332, Skin. Irrit. 2,		
					H315 Eye Irrit. 2, H319		
Hexamethylene					Skin Sens. 1, H317 Acute		
diisocyanate, oligomers	-	28182-81-2	500-060-2	75-90	Tox. 3, H331 STOT SE 3,		
					H335		
Solvent naphtha					Asp. Tox. 1, H304 Muta.		
(petroleum), light	Р	64742-95-6	265-199-0	5-10	1, H340 Carc. 1, H350		
arom. (<0.1% Benzene)							
n-butyl acetate					Flam. Liq. 2, H225		
					H320 STOT SE 3, H335		
	_	123-86-4	204-658-1	5-10	STOT SE 3, H336		
		5 10	Aquatic Acute 3, H402				
			Flam. Liq. 3, H226 STOT				
					SE 3, H336		

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 or mist.

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, 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 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

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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Safety Data Sheet -

Hexamethylene diisocyanate, oligomers: EH40/2005-WELs (12/2011). Absorbed through skin. STEL: 700 ppm 15 minute(s). TWA: 200 mg/m³ 8 hour(s). Solvent naphtha (petroleum), light arom. (<0.1% Benzene): EH40/2005-WELs (12/2011). Absorbed through skin. TWA: 125 mg/m³ 8 hour(s). Form: All forms TWA: 25 ppm 8 hour(s). Form: All forms n-butyl acetatel: EH40/2005-WELs (12/2011). Absorbed through skin. STEL: 966 mg/m³ 15 minute(s). STEL: 200 ppm 15 minute(s). TWA: 724 mg/m³ 8 hour(s).

TWA: 150 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.

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: 47°C (116.6°F)
Density: 1.13 g/cm3
Explosion limits: 1.2 – 7.6%
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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Safety Data Sheet -

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 - Leprosies macrochirus - 1,1 g	96 hours
Solvent naphtha		Acute EC50 <6.14 mg/L	4 mg/L Daphnia - Daphnia magna	
(petroleum),		Acute LC50 <2.60 mg/L	Algae-Pseudokirchneriella	96 hours
light arom. (<0.1% Benzene)			subcapitata (green algae)	
		Acute LC50 <9.22 mg/L	Fish - Oncorhynchus	96 hours
			mykiss (rainbow trout)	

Ecological information

Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
Solvent naphtha	-	-	Readily
(petroleum), light arom.			
(<0.1% Benzene)			

Bio accumulative potential

Product/ingredient name	LogKow	BCF	Potential
xylene	3.12	8.1 to 25.9	Low
Solvent naphtha	-	10 - 2500	High
(petroleum), light arom.			
(<0.1% Benzene)			
n-butyl acetate	1.78	-	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.



Safety Data Sheet -

Product/ingredient name	Result	Species	Exposure
Xylene	Acute LC50 (Inhalation) 20 mg/l	Rat	4 hours
	LD50 (Oral) 4300 mg/kg	Rat	
	TDLo (Dermal) 4300 mg/kg	Rabbit	
Solvent naphtha (petroleum),	LC50 (Inhalation) 6193 mg/m ³	Rat	4 hours
light arom. (<0.1% Benzene)	LD50 (Dermal) 3160 mg/kg	Rabbit	4 hours
	LD50 (Oral) 3492 mg/kg	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.

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

International transport regulations

	UN	Proper	Transport hazard class(es)	Packing	Environmental	Additional information
	Number	shipping name		group	hazards	
ADR/RID	UN 1263	PAINT	3	III	Yes	The environmentally
Class						hazardous substance mark
		× ·			is not required when	
						transported in sizes of ≤5 L
						or ≤5 kg. Tunnel restriction
						code (D/E)
IMDG/IMO	UN 1263	PAINT	3	Ш	Yes	The marine pollutant mark
Class						is not required when
			<u>8</u>			transported in sizes of ≤5 L
						or ≤5 kg. Emergency
						schedules (EmS) F-E, S-E
ICAO/IATA	UN 1263	PAINT	3	Ш	Yes	The environmentally
Class						hazardous substance mark
						may appear if required by
						other transportation
			V			regulations.



Safety Data Sheet

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

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

H225 Highly flammable liquid and vapor

H226 Flammable liquid and vapor

H304 May be fatal if swallowed and enters airways

H312 Harmful in contact with skin

H332 Harmful if inhaled

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H331 Toxic if inhaled

H320 Causes eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

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Safety Data Sheet

H340 May cause genetic defects H350 May cause cancer H402 Harmful to aquatic life

Full text of classifications [CLP/GHS]:

Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 Aquatic Acute 3, H402 SHORT-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 Sens. 1, H317 SKIN SENSITIZATION - Category 1 Eye Irrit. 2B, H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B 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 Muta. 1 H340 GERM CELL MUTAGENICITY - Category 1 Carc. 1 H350 CARCINOGENICITY - 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.