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: PHILAFLOOR PU - 2K Comp. A

Polyurethane Polyaspartic

Application of the substance: Two component polyurethane polyaspartic primer sealer/finish

Product use: Coating Solvent-borne

Colors: Standard factory or custom colors

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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Safety Data Sheet •

Hazard classification (GHS) and indication:			
Flammable liquids	Category 3	H226	Flammable liquid and vapor
Aspiration Hazard	Category 1	H304	May be fatal if swallowed and enters airways
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
Specific target organ toxicity, single exposure	Category 3 (respiratory tract irritation)	H335, H336	May cause respiratory irritation May cause drowsiness or dizziness
Aquatic environmental hazard/Long-term	Category 2	H411	Toxic to aquatic life with long lasting effects

3. Ingredient/composition information

Chemical name	Notes	Cas number	EC number	% by weight	Classification
Mixed amine esters	1	Proprietary	1	50 - 80	-
Benzene-1-chloro4- fluoromethyl	-	98-56-6	202-681-1	0 - 30	Flam. Liq. 3, H226, Skin Sens. 1, H317, Skin. Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
Solvent naphtha (petroleum), light arom.	H-P	64742-95-6	265-199-0	10 - 30	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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

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Safety Data Sheet

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: water fog, carbon dioxide, foam and Dry chemical.

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

Special Fire Hazards: Containers can rupture in a fire releasing toxic and corrosive gases. Vapors are heavier than air and can travel along the ground to a source of ignition and flash back, being ignited by heat, pilot lights, other flames and ignition sources distant from the area of material handling. Do not release runoff from fire to drains or watercourses.

Firefighting Equipment: Fire fighters should wear self-contained breathing apparatus with a full face piece operated in pressure demand or other air.

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: Small spills may be contained with spill absorbent materials. Large spills should be contained to prevent run-off to sewers, streams, public water sources, etc., and authorities should be notified.

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

PHILAFLOOR PU-2K New Version: October 14th, 2024 page 3 of 8

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Safety Data Sheet -

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 at temperatures between -1 and 49°C (30 - 120°F).

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. Any disposal should be in accordance with local, state and federal environmental regulations.

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 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

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. Chemical splash resistant goggles which comply to OSHA regulations are recommended.

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). The use of a respiratory mask meeting NOISH/MSHA is acceptable. Adequate ventilation should be present. In confined spaces, use compressedair or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter.

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Safety Data Sheet

9. Physical and chemical properties

Physical state: Clear or pigmented liquid.

Odor: Slight sweet smell.

Color: Various colors.

Boiling point: 139°C (282°F)

Flash point: Closed cup: 39°C (102°F)

Vapor pressure: 4.8 mm Hg at 37.7°C (100°F). Heavier than air.

Specific gravity: 1.1 g/cm3 average

Explosion limits: 9 - 10.5%

Solubility: Insoluble in the following materials: cold water and hot water. **V. O. C.:** 1.8 pounds per gallon maximum, 215 grams per liter maximum

Evaporation rate: Slower than ether

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Conditions to avoid: Avoid excessive heat, flames, sparks and any other possible sources of ignition. Never weld or use cutting torches near containers or freshly applied materials. Empty containers can be explosive.

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen and hydrocarbons. Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous polymerization: Will not occur.

11. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Benzene-1-chloro4-	-	Acute LC50 <5.60 mg/L	Lepomis macrochirus	96 hours
fluoromethyl			(Bluegill sunfish)	
		Acute LC50 <13.50 mg/L	Fish - Oncorhynchus	24 hours
			mykiss (rainbow trout)	
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 ho	
			subcapitata (green algae)	
		Acute LC50 <9.22 mg/L	Fish - Oncorhynchus	96 hours
			mykiss (rainbow trout)	

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Safety Data Sheet -

Ecological information

Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Benzene-1-chloro4-	-	-	Readily
fluoromethyl			
Solvent naphtha	-	-	Readily
(petroleum), light arom.			

Bio accumulative potential

Product/ingredient name	LogKow	BCF	Potential
Benzene-1-chloro4-	3.6	110	High
fluoromethyl			
Solvent naphtha	-	10 - 2500	High
(petroleum), light arom.			

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, nausea, 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 discomfort, redness, swelling, tearing and blurred vision and reversible damage. Swallowing may cause nausea, cramps, swelling, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.

Product/ingredient name	Result	Species	Exposure
Benzene-1-chloro4-fluoromethyl	Acute LC50 (Inhalation) 33 mg/l	Rat	4 hours
	LD50 (Oral) 13 g/kg (13000 mg/kg)	Rat	-
Solvent naphtha (petroleum), light	LC50 (Inhalation) 6193 mg/m³	Rat	4 hours
arom.	LD50 (Dermal) 3160 mg/kg	Rabbit	-
	LD50 (Oral) 3492 mg/kg	Rat	-

PHILAFLOOR PU-2K page 6 of 8 New Version: October 14th, 2024

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Safety Data Sheet

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: II

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

Philadelphia Coatings LLC PHILAFLOOR PU-2K page 7 of 8
New Version: October 14th, 2024

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Safety Data Sheet

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:

H226 Flammable liquid and vapor

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

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]:

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

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

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

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

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

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

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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Safety Data Sheet -

1. Chemicals and enterprise identification

Product name and code: PHILAFLOOR PU – 2K Comp. B (catalyst)

Polyurethane Polyaspartic

Application of the substance: Two component polyurethane polyaspartic primer sealer/finish

Product use: Coating Hardener / Solvent-borne

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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Safety Data Sheet -

Hazard classification (GHS) and indication:			
Flammable liquids	Category 3	H226	Flammable liquid and vapor
Aspiration Hazard	Category 1	H304	May be fatal if swallowed and enters airways
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
Aquatic environmental hazard/Long-term	Category 2	H411	Toxic to aquatic life with long lasting effects

3. Ingredient/composition information

Chemical name	Notes	Cas number	EC number	% by weight	Classification
Hexamethylene					Skin Sens. 1, H317 Acute
diisocyanate, oligomers	-	28182-81-2	500-060-2	70 - 80	Tox. 3, H331 STOT SE 3,
					H335
Benzene-1-chloro4-					Flam. Liq. 3, H226, Skin
fluoromethyl			202-681-1	0 - 30	Sens. 1, H317, Skin. Irrit.
	-	98-56-6			2, H315 Eye Irrit. 2, H319
					STOT SE 3, H335 Aquatic
				Chronic 2, H411	
Solvent naphtha					Flam. Liq. 3, H226 STOT
(petroleum), light	H-P		265 100 0	10 20	SE 3, H335 STOT SE 3,
arom. (<0.1% Benzene)	п-Р	64742-95-6	265-199-0	10 - 30	H336 Asp. Tox. 1, H304
					Aquatic Chronic 2, H411

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

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Safety Data Sheet

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: water fog, carbon dioxide, foam and Dry chemical.

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

Special Fire Hazards: Containers can rupture in a fire releasing toxic and corrosive gases. Vapors are heavier than air and can travel along the ground to a source of ignition and flash back, being ignited by heat, pilot lights, other flames and ignition sources distant from the area of material handling. Do not release runoff from fire to drains or watercourses.

Firefighting Equipment: Fire fighters should wear self-contained breathing apparatus with a full face piece operated in pressure demand or other air.

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: Small spills may be contained with spill absorbent materials. Large spills should be contained to prevent run-off to sewers, streams, public water sources, etc., and authorities should be notified.

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.

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Safety Data Sheet

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 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 at temperatures between -1 and 49°C (30 - 120°F).

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. Any disposal should be in accordance with local, state and federal environmental regulations.

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

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

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. Chemical splash resistant goggles which comply to OSHA regulations are recommended.

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Safety Data Sheet -

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). The use of a respiratory mask meeting NOISH/MSHA is acceptable. Adequate ventilation should be present. In confined spaces, use compressedair or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter.

9. Physical and chemical properties

Physical state: Clear liquid.

Odor: Slight sweet aromatic smell.

Color: Various colors.

Boiling point: 148°C (298°F)

Flash point: Closed cup: 40°C (104°F)

Vapor pressure: 4.8 mm Hg at 37.7°C (100°F). Heavier than air.

Specific gravity: 1.1 g/cm3 average

Explosion limits: 9 - 12.5%

Solubility: Insoluble but will react with cold water and hot water. **V. O. C.:** 1.8 pounds per gallon maximum, 215 grams per liter maximum

Evaporation rate: Slower than ether

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Conditions to avoid: Avoid excessive heat, flames, sparks and any other possible sources of ignition. Never weld or use cutting torches near containers or freshly applied materials. Empty containers can be explosive.

Hazardous decomposition products: carbon monoxide, carbon dioxide, oxides of nitrogen, hydrocarbons and isocyanates. Keep away from the following materials to prevent strong exothermic reactions: strong oxidizing agents, alcohols, water, bases.

Hazardous polymerization: Will not occur under normal conditions.

11. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Benzene-1-chloro4-	Mortality	Acute LC50 <5.60 mg/L	Lepomis macrochirus	96 hours
fluoromethyl			(Bluegill sunfish)	
		Acute LC50 <13.50 mg/L	Fish - Oncorhynchus	24 hours
			mykiss (rainbow trout)	
Solvent naphtha		Acute EC50 <6.14 mg/L	Daphnia - Daphnia magna	48 hours
(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)	

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Safety Data Sheet

Ecological information

Biodegradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Benzene-1-chloro4-	-	-	Readily
fluoromethyl			
Solvent naphtha	-	-	Readily
(petroleum), light arom.			
(<0.1% Benzene)			

Bio accumulative potential

Product/ingredient name	LogKow	BCF	Potential
Benzene-1-chloro4-	3.6	110	High
fluoromethyl			
Solvent naphtha	-	10 - 2500	High
(petroleum), light arom.			
(<0.1% Benzene)			

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, nausea, 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 discomfort, redness, swelling, tearing and blurred vision and reversible damage. Swallowing may cause nausea, cramps, swelling, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.

Product/ingredient name	Result	Species	Exposure
Benzene-1-chloro4-fluoromethyl	enzene-1-chloro4-fluoromethyl Acute LC50 (Inhalation) 33 mg/l		4 hours
	LD50 (Oral) 13 g/kg (13000 mg/kg)	Rat	-
Solvent naphtha (petroleum),	LC50 (Inhalation) 6193 mg/m³	Rat	4 hours
light arom. (<0.1% Benzene)	LD50 (Dermal) 3160 mg/kg	Rabbit	-
	LD50 (Oral) 3492 mg/kg	Rat	-

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Safety Data Sheet

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: II

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

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Safety Data Sheet

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:

H226 Flammable liquid and vapor

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H331 Toxic 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]:

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

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

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

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

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

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

Acute Tox. 3, H331 ACUTE TOXICITY (inhalation) - Category 3

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].

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Safety	Data	Sheet
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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.