SAFETY DATA SHEET

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision

Date of issue/Date of revision

Version 8.08

9 August 2025

Section 1. Chemical product and company identification

Product code : 1051752

Product name : PHENGUARD 930/935/940 HRD Product name : PHENGUARD 930/935/940 HRD

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.

Use of the substance/

mixture

: Coating. Paints. Painting-related materials.

Uses advised against : Not applicable.

Supplier's details : PPG Coatings (Kunshan) Co., Ltd

53 Jinyang Road, Lujia Town,

215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857

Emergency telephone number (with hours of

operation)

: 00 86 532 83889090

Section 2. Hazards identification

Classification of the substance or mixture according to GB 30000.1-2024 and GB 30000-2013

Emergency overview

Liquid.

Flammable liquid and vapor.

Harmful if swallowed, in contact with skin or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes serious eye damage.

Suspected of causing cancer.

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Prolonged or repeated contact may dry skin and cause irritation.

IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Immediately call a POISON CENTER or doctor.

See Section 12 for environmental precautions.

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Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
AQUATIC HAZARD (ACUTE) - Category 2

AQUATIC HAZARD (ACUTE) - Category 2
AQUATIC HAZARD (LONG-TERM) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 26.3%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 23.9%

GHS label elements

Hazard pictograms









Signal word

Hazard statements

: Danger

: Flammable liquid and vapor.

Harmful if swallowed, in contact with skin or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction. Causes serious eye damage.

Suspected of causing cancer.

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

Distain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Ground and bond container and receiving equipment. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Suitable extinguishing

media

Storage

: Use dry chemical, CO₂, water spray (fog) or foam.

: Store locked up. Store in a well-ventilated place. Keep cool.

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Section 2. Hazards identification

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Physical and chemical

hazards

: Flammable liquid and vapor.

Health hazards : Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns

> and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. Prolonged or repeated contact may dry

skin and cause irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

> pain watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Environmental hazards : Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number : Not applicable.

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Product name PHENGUARD 930/935/940 HRD

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
vylene isomers mixture	10 - <25	1330-20-7
N,N-diethyl-1,3-diaminopropane	10 - <25	104-78-9
Epoxy Resin (700 <mw<=1100)< td=""><td>10 - <25</td><td>25036-25-3</td></mw<=1100)<>	10 - <25	25036-25-3
benzyl alcohol	10 - <25	100-51-6
m-phenylenebis(methylamine)	10 - <25	1477-55-0
2-methylpropan-1-ol	1 - <10	78-83-1
ethylbenzene	1 - <10	100-41-4
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1 - <10	1675-54-3
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1 - <10	1760-24-3
salicylic acid	0.1 - <1	69-72-7
toluene	0.1 - <1	108-88-3

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

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running

water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

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.

Ingestion: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact : Causes severe burns. Harmful in contact with skin. Defatting to the skin. May

cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

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Section 4. First aid measures

Skin contact: Adverse symptoms may include the following:

pain or irritation redness

dryness cracking

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing :

media

: Use dry chemical, CO₂, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Section 7. Handling and storage

including any incompatibilities

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Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
x ylene	GBZ 2.1 (China, 7/2024) [Xylene]
	PC-TWA 8 hours: 50 mg/m³.
	PC-STEL 15 minutes: 100 mg/m³.
m-phenylenebis(methylamine)	ACGIH TLV (United States, 1/2024)
	Absorbed through skin.
	C: 0.018 ppm.
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 152 mg/m ³ .
ethylbenzene	GBZ 2.1 (China, 7/2024)
·	PC-TWA 8 hours: 100 mg/m ³ .
	PC-STEL 15 minutes: 150 mg/m³.
toluene	GBZ 2.1 (China, 7/2024) Absorbed through
	skin.
	PC-TWA 8 hours: 50 mg/m ³ .
	PC-STEL 15 minutes: 100 mg/m³.

Recommended monitoring procedures

Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye protection Skin protection Hand protection

: Chemical splash goggles and face shield.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

estimated.

Gloves

nitrile neoprene

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

: >37.78°C (>100°F) **Boiling point** : Closed cup: 35°C (95°F) Flash point

Lower and upper explosive

: Not available.

(flammable) limits **Relative density**

: 0.94

Solubility(ies)

Media Result cold water Not soluble

Viscosity

: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available.

Kinematic (40°C): >21 mm²/s

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Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition

products.

Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Dose
xylene isomers mixture	Rat - Oral - LD50	4.3 g/kg
-	Rabbit - Dermal - LD50	1.7 g/kg
N,N-diethyl-1,3-diaminopropane	Rabbit - Dermal - LD50	524 mg/kg
-	Rat - Oral - LD50	550 mg/kg
Epoxy Resin (700 <mw<=1100)< td=""><td>Rat - Oral - LD50</td><td>>2000 mg/kg</td></mw<=1100)<>	Rat - Oral - LD50	>2000 mg/kg
-	Rat - Dermal - LD50	>2000 mg/kg
benzyl alcohol	Rabbit - Dermal - LD50	>2000 mg/kg
-	Rat - Oral - LD50	1200 mg/kg
-	Rat - Inhalation - LC50 Dusts and	>5 mg/l [4 hours]
	mists	
m-phenylenebis(methylamine)	Rat - Oral - LD50	930 mg/kg
-	Rat - Male, Female - Dermal -	>3100 mg/kg
	LD50	
-	Rat - Inhalation - LC50 Gas.	700 ppm [1 hours]
2-methylpropan-1-ol	Rat - Oral - LD50	2830 mg/kg
-	Rabbit - Dermal - LD50	2460 mg/kg
	Rat - Inhalation - LC50 Vapor	24.6 mg/l [4 hours]
ethylbenzene	Rat - Oral - LD50	3.5 g/kg
-	Rabbit - Dermal - LD50	17.8 g/kg
	Rat - Inhalation - LC50 Vapor	17.8 mg/l [4 hours]
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Rabbit - Dermal - LD50	23000 mg/kg
-	Rat - Oral - LD50	15000 mg/kg
N-(3-(trimethoxysilyl)propyl)ethylenediamine	Rat - Oral - LD50	2413 mg/kg
-	Rabbit - Dermal - LD50	>2000 mg/kg
salicylic acid	Rat - Oral - LD50	0.891 g/kg
toluene	Rat - Oral - LD50	5580 mg/kg
-	Rat - Inhalation - LC50 Vapor	49 g/m³ [4 hours]

Product Conclusion
Skin corrosion/irritation

: There are no data available on the mixture itself.

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Section 11. Toxicological information

Product/ingredient name	Species	Dose	Score
xylene isomers mixture	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 500 mg	-
		Duration of treatment/exposure: 24 hours	
m-phenylenebis (methylamine)	Rat - Skin - Severe irritant	Duration of treatment/exposure: 4 hours Observation period: 4 hours	-
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Rabbit - Skin - Erythema/ Eschar	Duration of treatment/exposure: 4 hours	Irritation score: 0.8
-	Rabbit - Skin - Edema	Duration of treatment/exposure: 4 hours	Irritation score: 0.5
-	Rabbit - Skin - Mild irritant	Duration of treatment/exposure: 4 hours	-

Conclusion/Summary

: There are no data available on the mixture itself.

Serious eye damage/eye irritation

Product/ingredient name	Species	Dose	Score
s-[4-(2,3-epoxipropoxi) phenyl]propane	Rabbit - Eyes - Redness of the conjunctivae	Duration of treatment/exposure: 24 hours	Irritation score: 0.4
-	Rabbit - Eyes - Mild irritant	Duration of treatment/exposure: 24 hours	-
		Fully reversible in 7 days or less	

Conclusion/Summary: There are no data available on the mixture itself.

Respiratory corrosion/irritation

Conclusion/Summary: There are no data available on the mixture itself.

Sensitization

Product/ingredient name	Species	Result
m-phenylenebis(methylamine)	Mouse - skin OECD 429	Result: Sensitizing
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Mouse - skin	Result: Sensitizing

Skin

Conclusion/Summary: There are no data available on the mixture itself.

Respiratory

Conclusion/Summary: There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary: There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary: There are no data available on the mixture itself.

Classification

Product/ingredient name	IARC
kylene isomers mixture ethylbenzene	3 2B
bis-[4-(2,3-epoxipropoxi)phenyl]propane toluene	3 3

Reproductive toxicity

Conclusion/Summary: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

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Section 11. Toxicological information

Product/ingredient name	Result
2-methylpropan-1-ol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
N-(3-(trimethoxysilyl)propyl)ethylenediamine	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
toluene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 2
toluene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 2

Aspiration hazard

Product/ingredient name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact: Causes severe burns. Harmful in contact with skin. Defatting to the skin. May

cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

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Section 11. Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary: There are no data available on the mixture itself.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)		Inhalation (dusts and mists) (mg/l)
HENGUARD 930/935/940 HRD	1381.7	1446.5	30146.4	30.9	4.0
xylene isomers mixture	4300	1700	N/A	11	1.5
N,N-diethyl-1,3-diaminopropane	550	524	N/A	N/A	N/A
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
benzyl alcohol	1200	2500	N/A	N/A	N/A
m-phenylenebis(methylamine)	930	2500	4500	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
N-(3-(trimethoxysilyl)propyl)ethylenediamine	2413	2500	N/A	N/A	N/A
salicylic acid	891	N/A	N/A	N/A	N/A
toluene	5580	N/A	N/A	49	N/A

Other information

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Avoid contact with skin and clothing. Can form nitrosamines in the presence of certain organic materials and if heated. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
√,N-diethyl- 1,3-diaminopropane	Acute - LC50	Fish	146.6 mg/l [96 hours]
, ,	Acute - EC50 Acute - EC50	Daphnia Algae	30.16 mg/l [48 hours] 34 mg/l [72 hours]
2-methylpropan-1-ol	Acute - EC50	Daphnia	1100 mg/l [48 hours]
ethylbenzene	Acute - EC50 - Fresh water	Daphnia	1.8 mg/l [48 hours]
	Chronic - NOEC - Fresh water	Daphnia - Ceriodaphnia dubia	1 mg/l
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Chronic - NOEC	Daphnia	0.3 mg/l [21 days]
	Acute - LC50 - Fresh water	Daphnia - daphnia magna	1.8 mg/l [48 hours]
N-(3-(trimethoxysilyl)propyl) ethylenediamine	EC50	Fish	597 mg/l [96 hours]
salicylic acid	Acute - EC50 - Fresh water	Daphnia - Water flea - Daphnia longispina - Neonate	1147.57 mg/l [48 hours]
	Chronic - NOEC - Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	5.6 mg/l [21 days]
toluene	EC50 LC50	Daphnia Fish	3.78 mg/l [48 hours] 5.5 mg/l [96 hours]

Conclusion/Summary: Not available.

Persistence/degradability

Product/ingredient name	Test	Result	Dose / Inoculum
N,N-diethyl- 1,3-diaminopropane		90 to 100% [28 days] - Readily	
ethylbenzene	-	79% [10 days] - Readily	

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene isomers mixture	-	-	Readily
N,N-diethyl-	-	-	Readily
1,3-diaminopropane			
benzyl alcohol	-	-	Readily
ethylbenzene	-	-	Readily
bis-[4-(2,3-epoxipropoxi)	-	-	Not readily
phenyl]propane			-
toluene	-	-	Readily

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
xylene isomers mixture	3.12	7.4 to 18.5	Low
benzyl alcohol	0.87	-	Low
m-phenylenebis	0.18	2.69	Low
(methylamine)			
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low
salicylic acid	2.21 to 2.26	-	Low
toluene	2.73	90	Low

Mobility in soil

Soil/Water partition coefficient

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	China	UN	IMDG	IATA
UN number	UN3470	UN3470	UN3470	UN3470
UN proper shipping name	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)	8 (3)
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.

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Product name PHENGUARD 930/935/940 HRD

Section 14. Transport information

Marine pollutant Not applicable. Not applicable. Not applicable. Not applicable. substances

Additional information

: None identified. CN UN : None identified. : None identified. **IMDG IATA** : None identified.

Special precautions for user : 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 bulk according: Not applicable.

to IMO instruments

Section 15. Regulatory information

China inventory (IECSC) : All components are listed or exempted.

: Production Safety Law of the People's Republic of China References

Code of Occupational Disease Prevention of the People's Republic of China

Environmental Protection Law of the People's Republic of China

Fire Control Law of the People's Republic of China

Regulations on the Control over Safety of Dangerous Chemicals

Occupational exposure limits for hazardous agents in the workplace chemical

hazardous agents (GBZ2.1)

Specification for classification and labelling of chemicals according to Part 1:

General rules (GB 30000.1-2024)

Safety data sheet for chemical products - Content and order of sections (GB/

T16483)

Guidance on the compilation of safety data sheet for chemical products (GB/

T17519)

General rule for preparation of precautionary label for chemicals (GB15258)

Safety rules for classification, precautionary labeling and precautionary statements

of chemicals (GB30000.2-29)

Section 16. Other information

History

Date of issue/Date of : 9 August 2025

revision

Version : 8.08

Date of previous issue : 6/25/2025 First issue date : 3/9/2019 Prepared by : EHS

China Page: 15/16 Date of issue 9 August 2025 Version 8.08

Product name PHENGUARD 930/935/940 HRD

Section 16. Other information

Key to abbreviations

Product code 1051752

: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

UN = United Nations



Indicates information that has changed from previously issued version.

Notice to reader

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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