# **SAFETY DATA SHEET**



### Conforms to Official Mexican Standard NOM-018-STPS-2015

### Date of revision 1 September 2022

Version 7

Date of issue 1 September 2022

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: PHENGUARD 930/935/940 HARDENER
Product code	: 00235169
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

# **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 - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 24.4% (cral) 28.3% (dermal) 41.2% (inhalation)
	24.4% (oral), 28.3% (dermal), 41.2% (inhalation)

### **GHS label elements**

Product name PHENGUARD 930/935/940 HARDENER

# **SECTION 2: Hazards identification**

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>H226 - Flammable liquid and vapor.</li> <li>H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H335 - May cause respiratory irritation.</li> <li>H351 - Suspected of causing cancer.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure. (hearing organs)</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> </ul>
Response	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338, P310 - 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.</li> </ul>
Storage	: P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory syster 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. Emits toxic fume when heated.

### Product name PHENGUARD 930/935/940 HARDENER

### **SECTION 2: Hazards identification**

See toxicological information (Section 11)

### **SECTION 3: Composition/information on ingredients**

Substance/mixture Product name		Mixture PHENGUARD 930/935/940 HARDENER
Other means of identification	1	Not applicable.

≥20 - ≤25	
=20 - =20	1330-20-7
≥10 - ≤20	104-78-9
≥10 - ≤15	100-51-6
≥5.0 - ≤10	78-83-1
≥1.0 - ≤5.0	1477-55-0
≥1.0 - ≤4.4	100-41-4
≥1.0 - ≤4.2	1760-24-3
<1.0	69-72-7
<1.0	108-88-3
	≥10 - ≤15 ≥5.0 - ≤10 ≥1.0 - ≤5.0 ≥1.0 - ≤4.4 ≥1.0 - ≤4.2 <1.0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

### **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, if 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. May cause respiratory irritation.		
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			

See toxicological information (Section 11)

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

### **SECTION 4: First aid measures**

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.

# SECTION 5: Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: 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.
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.

## **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).

#### Methods and materials for containment and cleaning up

### SECTION 6: Accidental release measures

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 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). 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

Protective measures	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. Avoid exposure during pregnancy. 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. 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.
Special precautions	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 0 to 35°C (32 to 95°F). 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 well-ventilated 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.

### **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
<b>x</b> ylene	NOM-010-STPS-2014 (Mexico, 4/2016). [] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
3-aminopropyldiethylamine benzyl alcohol	None. IPEL (-). TWA: 5 ppm STEL: 10 ppm
2-methylpropan-1-ol	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.
m-phenylenebis(methylamine)	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. CEIL: 0.1 mg/m <sup>3</sup>
ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
N-(3-(trimethoxysilyl)propyl)ethylenediamine	None.
salicylic acid	None.
toluene	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.

#### Key to abbreviations

С	= Ceiling Limit	STEL	= Short term exposure limit
IPEL	= Internal Permissible Exposure Limit	TLV	= Threshold Limit Value
		TWA	<ul> <li>Time Weighted Average</li> </ul>

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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 measure 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/face protection Skin protection	:	Chemical splash goggles and face shield.

### Product name PHENGUARD 930/935/940 HARDENER

# **SECTION 8: Exposure controls/personal protection**

Hand protection	: 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	: butyl rubber
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	<ul> <li>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.</li> </ul>
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

<u>Appearance</u>		
Physical state	Liquid.	
Color	Not available.	
Odor	Characteristic.	
Odor threshold	Not available.	
Molecular weight	Not applicable.	
рН	Not applicable.	
Melting point	Not available.	
Boiling point	>37.78°C (>100°F)	
Flash point	Closed cup: 34°C (93.2°F)	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Flammability (solid, gas)	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Evaporation rate	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	0.93	
Density(lbs / gal)	7.76	
Solubility	Insoluble in the following materials: cold water.	
Solubility in water	Not available.	
Partition coefficient: n- octanol/water	Not applicable.	
Viscosity	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	

Product code 00235169	Date of issue 1 September 2022 Version 7
Product name PHENGUA	ARD 930/935/940 HARDENER
SECTION 9: Phys	sical and chemical properties
Volatility	: 62% (v/v), 57.826% (w/w)
% Solid. (w/w)	: 42.174
<b>SECTION 10: Sta</b>	bility 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. Refer to protective measures listed in sections 7 and 8.
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 **Species** Dose **Exposure x**ylene LD50 Dermal Rabbit 1.7 g/kg \_ LD50 Oral Rat 4.3 g/kg 3-aminopropyldiethylamine LD50 Dermal Rabbit 524 mg/kg LD50 Oral Rat 830 mg/kg benzyl alcohol LC50 Inhalation Dusts and mists Rat >4178 mg/m<sup>3</sup> 4 hours LD50 Dermal Rabbit 2000 mg/kg LD50 Oral Rat 1.23 g/kg 2-methylpropan-1-ol LC50 Inhalation Vapor 4 hours Rat 24.6 mg/l LD50 Dermal Rabbit 2460 mg/kg LD50 Oral Rat 2830 mg/kg m-phenylenebis LC50 Inhalation Gas. Rat 700 ppm 1 hours (methylamine) LD50 Dermal Rat - Male. >3100 mg/kg Female LD50 Oral Rat 930 mg/kg ethylbenzene LC50 Inhalation Vapor Rat 17.8 mg/l 4 hours LD50 Dermal Rabbit 17.8 g/kg LD50 Oral Rat 3.5 g/kg N-(3-(trimethoxysilyl)propyl) LD50 Oral Rat 2413 mg/kg ethylenediamine salicylic acid LD50 Oral Rat 0.891 g/kg toluene LC50 Inhalation Vapor 4 hours Rat 49 g/m³ LD50 Dermal Rabbit 8.39 g/kg LD50 Oral 5580 mg/kg Rat \_ **Conclusion/Summary** There are no data available on the mixture itself. Irritation/Corrosion **Mexico**

### Product name PHENGUARD 930/935/940 HARDENER

# **SECTION 11: Toxicological information**

Product/ingredient name	Result			Species Score		e Exposur	re O	Observation	
<b>x</b> ylene	Skin - Moo	derate irr	itant	Rabbit	-	24 hours mg	500 -		
3-aminopropyldiethylamine m-phenylenebis (methylamine)	Skin - Visi Skin - Sev			Rabbit Rat	-	1 minutes 4 hours		days hours	
Conclusion/Summary					•		•		
Skin	: There ar	re no dat	ta availa	ble on the mix	ture itsel	f.			
Eyes				ble on the mix					
Respiratory	: There ar	re no dat	ta availa	ble on the mix	ture itsel	f.			
<u>Sensitization</u>									
Product/ingredient name	Route of exposure	5	Species	<b>i</b>		Result			
m-phenylenebis (methylamine)	skin		Mouse			Sensitizing			
Conclusion/Summary									
Skin	: There ar	re no dat	ta availa	ble on the mix	ture itsel	f.			
Respiratory	: There ar	re no dat	ta availa	ble on the mix	ture itsel	f.			
<u>Mutagenicity</u>									
Conclusion/Summary	: There ar	re no dat	ta availa	ble on the mix	ture itsel	f.			
Carcinogenicity									
Conclusion/Summary	: There ar	re no dat	ta availa	ble on the mix	ture itsel	f.			
<b>Classification</b>									
Product/ingredient name	OSHA	IARC	NTP						
<b>x</b> ylene	-	3	-						
ethylbenzene	-	2B	-						
toluene	-	3	-						
Carcinogen Classificatio IARC: 1, 2A, 2B, NTP: Known to OSHA: + Not listed/not reg	3, 4 be a human ca	rcinogen;	Reasona	bly anticipated t	o be a hum	an carcinogen			
Reproductive toxicity									
Conclusion/Summary	: There ar	re no dat	ta availa	ble on the mix	ture itsel	f.			
Teratogenicity									
Conclusion/Summary	: There ar	re no dat	ta availa	ble on the mix	ture itsel	f.			
Specific target organ toxicit	t <mark>y (single ex</mark>	(posure)	2						
Name				Category		oute of xposure	Target	t organs	
xylene				Category 3	-		Respir	atory tract	
2-methylpropan-1-ol				Category 3	-			atory tract	
toluene				Category 3 Category 3			Narcot	n ic effects ic effects	

### **SECTION 11: Toxicological information**

	Category	Route of exposure	Target organs
ethylbenzene toluene	Category 2 Category 2	-	hearing organs -

Target organs

: Contains material which causes damage to the following organs: blood, liver, heart, brain. Contains material which may cause damage to the following organs: kidneys, lungs,

the nervous system (CNS), ears, eye, lens or cornea.

### Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1
benzyl alcohol	ASPIRATION HAZARD - Category 2
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	;	Harmful if inhaled. May cause respiratory irritation.
Skin contact	:	Causes severe burns. Harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	1	Harmful if swallowed.
Over-exposure signs/sympton	m	
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	-	Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	s	and also chronic effects from short and long term exposure

### Product name PHENGUARD 930/935/940 HARDENER

# **SECTION 11: Toxicological information**

Conclusion/Summary	:	There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. 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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and dermal routes of exposure and eye contact. Exposure by oral, inhalation and dermal routes of exposure and eye contact. 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.
Short term exposure		······································
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Potential chronic health effe	ects	
General	:	May cause damage to organs through prolonged or repeated exposure. 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	:	Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
HENGUARD 930/935/940 HARDENER	1621.4	1242.7	59012.3	21.5	2
xylene	4300	1700	N/A	11	1.5
3-aminopropyldiethylamine	830	524	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
m-phenylenebis(methylamine)	930	2500	4500	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
<u>.</u>	•			Mexico	Page: 11/15

Product code 00235169		Date of issue	1 September 2022 Version 7		
Product name PHENGUARD 930/935/940 HARDENER					
<b>SECTION 11: Toxicological inf</b>	ormatio	n			
N-(3-(trimethoxysilyl)propyl)ethylenediamine salicylic acid	2413 891	N/A N/A	N/A N/A	11 N/A	1.5 N/A
toluene	5580	8390	N/A	49	N/A

# **SECTION 12: Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
3-aminopropyldiethylamine	Acute EC50 30.2 mg/l	Daphnia	48 hours
	Acute EC50 146.6 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
,	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
salicylic acid	Acute EC50 1147.57 mg/l Fresh water	Daphnia - Daphnia longispina -	48 hours
-		Neonate	
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days

### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Aminopropyldiethylamine ethylbenzene	OECD 301A -	90 % - Readily - 28 79 % - Readily - 10		-	-
Product/ingredient name	Aquatic half-life	9	Photolys	is	Biodegradability
xylene 3-aminopropyldiethylamine benzyl alcohol ethylbenzene toluene	- - - -		- - - -		Readily Readily Readily Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential	
xylene	3.12	7.4 to 18.5	low	
benzyl alcohol	0.87	-	low	
2-methylpropan-1-ol	1	-	low	
m-phenylenebis (methylamine)	0.18	2.69	low	
ethylbenzene	3.6	79.43	low	
salicylic acid	2.21 to 2.26	_	low	
toluene	2.73	8.32	low	

### Mobility in soil Soil/water partition

coefficient (Koc)

: Not available.

#### Other adverse effects

: No known significant effects or critical hazards.

### Product name PHENGUARD 930/935/940 HARDENER

### **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 nonrecyclable 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### **SECTION 14: Transport information**

	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)
Packing group	Ш	Ш	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	Not applicable.	Not applicable.	Not applicable.
RQ substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

Mexico	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: 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.

### **SECTION 14: Transport information**

Transport in bulk according : Not applicable. to IMO instruments

### **SECTION 15: Regulatory information**

### <u>Mexico</u>

Classification

Flammability : 3 Health : 3 Reactivity : 1

### International regulations

Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

# **SECTION 16: Other information**

Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 3 Physical hazards : 1 (\*) - Chronic

```
effects
```

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Date of previous issue Organization that prepared the SDS	: <b>2/10/2022</b> : EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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) N/A = Not available SGG = Segregation Group UN = United Nations

#### Indicates information that has changed from previously issued version.

#### Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

### <u>Disclaimer</u>

### Product name PHENGUARD 930/935/940 HARDENER

### **SECTION 16: Other information**

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.