# **SAFETY DATA SHEET**



Date of issue/Date of revision22 September 2022Version 11

Section 1. Identification	
Product name	: SIGMAGUARD 603 HARDENER
Product code	: 00358516
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	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
Emergency telephone number	: (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

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 4         <ul> <li>ACUTE TOXICITY (oral) - Category 4</li> <li>ACUTE TOXICITY (dermal) - Category 4</li> <li>ACUTE TOXICITY (inhalation) - Category 4</li> <li>SKIN CORROSION - Category 1</li> <li>SERIOUS EYE DAMAGE - Category 1</li> <li>SKIN SENSITIZATION - Category 1</li> <li>TOXIC TO REPRODUCTION - Category 2</li> </ul> </li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 7.5% (oral), 9.5% (dermal), 65.4% (inhalation)

### **GHS label elements**

Product name SIGMAGUARD 603 HARDENER

# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Combustible liquid.</li> <li>Harmful if swallowed, in contact with skin or if inhaled.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of damaging fertility or the unborn child.</li> </ul>
Precautionary statements	
Prevention	: Obtain 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 flames and hot surfaces. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must 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. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: 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. Emits toxic fumes when heated.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Product name :

: Mixture : SIGMAGUARD 603 HARDENER

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# Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Propylidynetrimethanol, propoxylated, reaction products with ammonia	≥50 - ≤75	39423-51-3
3-aminomethyl-3,5,5-trimethylcyclohexylamine	≥20 - ≤31	2855-13-2
benzyl alcohol	≥10 - ≤20	100-51-6
Epoxy Amine Resin	≥5.0 - ≤10	Not available.
2,4,6-tris(dimethylaminomethyl)phenol	≥1.0 - ≤5.0	90-72-2
salicylic acid	≥1.0 - ≤4.7	69-72-7

SUB codes represent substances without registered CAS Numbers.

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

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### 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	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

### 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. May cause an allergic skin reaction.
Ingestion	Harmful if swallowed.
Over-exposure signs/sympton	<u>ns</u>
Eye contact :	Adverse symptoms may include the following: pain watering redness
Inhalation :	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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# Section 4. First aid measures

Skin contact Ingestion	<ul> <li>Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations</li> <li>Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Indication of immediate m	edical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>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.</li> </ul>
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	: 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	: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides
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 For emergency responders		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. 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 Methods and materials for co		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).	
methous and materials for co	110	annient 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	1	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and	

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. Empty containers retain product residue and can be hazardous. Do not reuse container.

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# Section 7. Handling and storage

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	
Fropylidynetrimethanol, propoxylated, reaction products with ammonia	None.	
3-aminomethyl-3,5,5-trimethylcyclohexylamine	None.	
benzyl alcohol	IPEL (-).	
	TWA: 5 ppm	
	STEL: 10 ppm	
Epoxy Amine Resin	None.	
2,4,6-tris(dimethylaminomethyl)phenol	None.	
salicylic acid	None.	
Key to abbreviations		
A = Acceptable Maximum Peak	S = Potential skin absorption	
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization	
C = Ceiling Limit	SS = Skin sensitization	
F = Fume	STEL = Short term Exposure limit values	

IPEL = Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration.

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R = Respirable
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Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

### Consult local authorities for acceptable exposure limits.

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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
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hazardous substances will also be required.

= Total dust

= Threshold Limit Value

= Time Weighted Average

TD

TLV

TWA

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# Section 8. Exposure controls/personal protection

Appropriate engineering	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or	
controls	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 meas	<u>ures</u>	
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	: Chemical splash goggles and face shield.	
Skin 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.	
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. The respiratory protection shall be in accordance to 29 CFR 1910.134.	

# Section 9. Physical and chemical properties

# AppearancePhysical state: Liquid.Color: Not available.Odor: Amine-like. [Strong]Odor threshold: Not available.pH: Not applicable.Melting point: Not available.

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# Section 9. Physical and chemical properties

		•	•
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 80°C (176°F)	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	1	Not available.	
Flammability	1	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	1	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	1	0.98	
Density(lbs / gal)	1	8.18	
0 - 1 - 1 - 11 - (1		Media	Result
Solubility(ies)	÷	old water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	1	Kinematic (40°C (104°F)):	<14 mm²/s (<14 cSt)
Volatility	1	66% (v/v), 65.948% (w/w)	
% Solid. (w/w)	1	34.052	

# 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. 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

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Fropylidynetrimethanol, propoxylated, reaction products with ammonia	LD50 Dermal	Rabbit	0.4 g/kg	-
•	LD50 Oral	Rat	0.22 g/kg	-
3-aminomethyl-	LC50 Inhalation Dusts and mists	Rat	>5.01 mg/l	4 hours
3,5,5-trimethylcyclohexylamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 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	-
2,4,6-tris	LD50 Dermal	Rabbit	1.28 g/kg	-
(dimethylaminomethyl)phenol				
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
salicylic acid	LD50 Oral	Rat	0.891 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₽,4,6-tris (dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days

### **Conclusion/Summary**

<u>conclusion/summary</u>	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Constituetion	

### **Sensitization**

	Route of exposure	Species	Result
♂-aminomethyl- 3,5,5-trimethylcyclohexylamine		Guinea pig	Sensitizing

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Teratogenicity</b>	

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# Section 11. Toxicological information

	-
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Specific target organ tox	<u>icity (single exposure)</u>
Not available.	
Specific target organ tox	<u>icity (repeated exposure)</u>
Not available.	
<u>Target organs</u>	: Contains material which causes damage to the following organs: blood, liver, heart,
	brain. Contains material which may source domage to the following organs, kidneys, unner
	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, central nervous system (CNS).
	respiratory tract, central nervous system (CrvO).
A contractions to constant	
Aspiration hazard	
Not available.	
Information on the likely re	outes of exposure
-	
Potential acute health eff	<u>ects</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/syn	<u>nptoms</u>
Eye contact	: Adverse symptoms may include the following:
-	pain
	watering
	redness
Inhalation	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following:
Skill contact	pain or irritation
	redness
	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 of	fects and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. 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

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# Section 11. Toxicological information

	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 reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
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 eff	ects
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
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/ I)
GMAGUARD 603 HARDENER Propylidynetrimethanol, propoxylated, reaction products with ammonia	711.5 500	1528 1100	N/A N/A	N/A N/A	3.7 N/A
3-aminomethyl-3,5,5-trimethylcyclohexylamine benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol salicylic acid	1030 1230 1200 891	2500 2000 1280 N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A 1.5 N/A N/A

# Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
₽,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
salicylic acid	Acute EC50 1147.57 mg/l Fresh water	Daphnia - Daphnia longispina - Neonate	48 hours
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days

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# Section 12. Ecological information

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol	-	-	Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	low
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	0.99	-	low
benzyl alcohol	0.87	-	low
2,4,6-tris (dimethylaminomethyl)phenol	0.219	-	low
salicylic acid	2.21 to 2.26	-	low

### Mobility in soil

Soil/water partition coefficient (Koc)

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: Not available.
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# 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.

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

### Product name SIGMAGUARD 603 HARDENER

# 14. Transport information

	DOT	IMDG	ΙΑΤΑ	
UN number	UN3066	UN3066	UN3066	
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	
Transport hazard class (es)	8	8	8	
Packing group	II	II	Π	
Environmental hazards	No.		Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	(Polyoxy propylene diamine)	Not applicable.	

### **Additional information**

/ la antional h		
DOT	: None identified.	
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.	
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.	
Special pred	cautions for user : Transport within user's premises: always transport in closed containers that are	

**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

### **United States**

United States inventory (TSCA 8b) : At least one component is not listed.

### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 4
	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
	TOXIC TO REPRODUCTION - Category 2

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# Section 15. Regulatory information

Composition/information on ingredients			
Name	%	Classification	
Fropylidynetrimethanol,	≥50 - ≤75	ACUTE TOXICITY (oral) - Category 4	
propoxylated, reaction products		ACUTE TOXICITY (dermal) - Category 4	
with ammonia	≥20 - ≤31	SERIOUS EYE DAMAGE - Category 1	
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	220 - 531	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1	
3,3,5-timetryicycionexylamine		SERIOUS EYE DAMAGE - Category 1	
		SKIN SENSITIZATION - Category 1A	
benzyl alcohol	≥10 - ≤20	ACUTE TOXICITY (oral) - Category 4	
		ACUTE TOXICITY (dermal) - Category 4	
		ACUTE TOXICITY (inhalation) - Category 4	
	5.5.0 110	EYE IRRITATION - Category 2A	
Epoxy Amine Resin	≥5.0 - ≤10	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B	
2,4,6-tris(dimethylaminomethyl)	≥1.0 - ≤5.0	ACUTE TOXICITY (oral) - Category 4	
phenol	1.0 - 20.0	ACUTE TOXICITY (dermal) - Category 4	
F		SKIN CORROSION - Category 1C	
		SERIOUS EYE DAMAGE - Category 1	
salicylic acid	≥1.0 - ≤4.7	COMBUSTIBLE DUSTS	
		ACUTE TOXICITY (oral) - Category 4	
		SERIOUS EYE DAMAGE - Category 1	
		TOXIC TO REPRODUCTION - Category 2	

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

# Section 16. Other information

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

Health :	3	*	Flammability	:	2	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. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. 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.

National Fire Protection Association (U.S.A.)

Health : 3Flammability : 2Instability : 1Date of previous issue: 5/20/2021Organization that prepared: EHSthe SDS

Product name SIGMAGUARD 603 HARDENER

# Section 16. Other information

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 = Intermediate Bulk Container
	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)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations

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

### **Disclaimer**

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.