# SAFETY DATA SHEET



Date of issue 6/25/2025 (month/day/year) SDS Number: AA00147-5300000054

Version 5

# Section 1. Chemical product and company identification

A. Product name : AMERLOCK SEALER HARDENER NF

Product code : 00429356

B. 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

: Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

**Email Address** 

: PPG SSC

(680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

**Emergency telephone** 

number:

: +82-52-210-8331

# Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 4

CORROSIVE TO METALS - Category 1
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 1

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

AQUATIC HAZARD (LONG-TERM) - Category 3

This product is classified in accordance with the Industrial Safety and Health Act and

the Chemical Control Act.

B. GHS label elements, including precautionary statements

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## Section 2. Hazards identification

Symbol







Signal word

: Danger

Hazard statements

: H227 - Combustible liquid.

H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H330 - Fatal if inhaled.

H335 - May cause respiratory irritation.

H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

**Prevention** 

: P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P284 - In case of inadequate ventilation wear respiratory protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P234 - Keep only in original packaging.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash thoroughly after handling.

Response

: 🗗 390 - Absorb spillage to prevent material damage.

P320 - Specific treatment is urgent (see the label).

P370 + P378 - In case of fire: Never use water to extinguish.

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 or shower. Immediately call a POISON CENTER or doctor.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

P363 - Wash contaminated clothing before reuse.

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.

**Storage** 

: 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.

C. Other hazards which do not result in classification

: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F).

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# Section 3. Composition/information on ingredients

### **CAS** number/other identifiers

Product code 00429356

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
Furanmethanol and mixtures which contain 25% or more.	FURFURYL ALCOHOL	CAS: 98-00-0	20 - <30
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	POLYOXY PROPYLENE DIAMINE	EC: 202-626-1 CAS: 9046-10-0 (n = 2-6)	10 -<20
Polyaminoamide	POLYAMIDE (POLYMER)	EC: 618-561-0 CAS: 68082-29-1 EC: Polymer	10 -<20
Formaldehyde, polymer with 1,3-dimethylbenzene	FORMALDEHYDE POLYMER WITH 1,3-DIMETHYLBENZENE	CAS: 26139-75-3	10 -<20
1,2-benzenedicarboxylic acid, di- C9-11-branched alkyl ester, C10-rich	1.2 BENZENEDICARBOXYLIC ACID, DI-C9-C11-BRANCHED ALKYL ESTERS C10 RICH	CAS: 68515-49-1	10 -<20
		EC: 271-091-4	
Benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6 EC: 202-859-9	10 -<20
Formaldehyde, polymer with benzenamine, hydrogenated	Formaldehyde, polymer with benzenamine, hydrogenated	CAS: 135108-88-2	5 - <10
2,4,6-tris[(dimethylamino)methyl]phenol	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 EC: 202-013-9	1 - <5
Trientine	TRIETHYLENETETRAMINE	CAS: 112-24-3 EC: 203-950-6	1 - <5
SALICYLIC ACID	Salicylic acid	CAS: 69-72-7 EC: 200-712-3	1 - <5
BIS(P-AMINOCYCLOHEXYL)METHANE	METHYLENEDI(CYCLOHEXYLAMINE)	CAS: 1761-71-3 EC: 217-168-8	1 - <5

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

A. Eye contact	<ul> <li>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.</li> </ul>
B. 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.
C. 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>
D. Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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## Section 4. First aid measures

E. 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

A. 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.

B. Specific hazards arising from the chemical

: Combustible liquid. 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 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 Formaldehyde.

C. Special equipment for fire-fighting

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

Fire-fighting procedures

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.

# Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures : 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.

B. 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.

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## Section 6. Accidental release measures

## C. 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. Absorb spillage to prevent material damage. 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. Absorb spillage to prevent material damage. 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

- A. Precautions for safe handling
- Evit 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. 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. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
- B. 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 in a corrosion resistant container with a resistant inner liner. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep away from metals. 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

A. Occupational exposure limits

Ingredient name	Exposure limits
	ISHA Article 42 (Republic of Korea, 1/2020) Absorbed through skin. STEL 15 minutes: 15 ppm. TWA 8 hours: 10 ppm.

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## Section 8. Exposure controls/personal protection

Recommended monitoring procedures

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: 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.

# controls

B. Appropriate engineering: 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.

#### C. Personal protective equipment

**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.

## **Eye 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.

**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.

# Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

A. Appearance

**Physical state** : Liquid. Color : Colorless. B. Odor : Characteristic. C. Odor threshold : Not available. D. pH : Not applicable.

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## Section 9. Physical and chemical properties

E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point Closed cup: 80°C (176°F)

H. Evaporation rate : Not available. Flammability (solid, gas) : Not available. J. Lower and upper : Not available.

explosive (flammable) limits

K. Vapor pressure

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	0.675	0.09		1.575	0.21	

Media Result L. Solubility(ies)

> cold water Not soluble

: Not available. Solubility in water Vapor density Not available.

**Relative density** : 1.02

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition** temperature

Ingredient name	°C	°F	Method
4,4'-methylenebis(cyclohexylamine)	300	572	EU A.15

**Decomposition** 

temperature

: Not available.

**Viscosity** R.

S.

: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Flow time (ISO 2431) : Not available. **Molecular weight** : Not applicable.

# Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

reactions

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

**B.** Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

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## Section 10. Stability and reactivity

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

oxidizing agents, strong alkalis, strong acids.

D. Hazardous decomposition products

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

# **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: Not available.

## Potential acute health effects

Inhalation : Fatal if inhaled. May cause respiratory irritation.

Ingestion : Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

**Skin contact** : Causes severe burns. Toxic in contact with skin. Defatting to the skin. May cause an

allergic skin reaction.

**Eye contact** : Causes serious eye damage.

#### Over-exposure signs/symptoms

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

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

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

**Eye contact** Adverse symptoms may include the following:

> pain watering redness

## B. Health hazards **Acute toxicity**

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# **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
<b>2</b> -Furanmethanol and mixtures which contain 25% or more.	LC50 Inhalation Vapor	Rat	934 mg/m³	4 hours
	LC50 Inhalation Vapor	Rat	233 ppm	4 hours
	LD50 Dermal	Rabbit	400 mg/kg	-
	LD50 Dermal	Rat	3825 mg/kg	-
	LD50 Oral	Rat	0.132 g/kg	-
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	LD50 Dermal	Rat	2980 mg/kg	-
, , , , , , , , , , , , , , , , , , , ,	LD50 Oral	Rat	2885 mg/kg	_
1,2-benzenedicarboxylic acid, di- C9-11-branched alkyl ester, C10-rich	LD50 Dermal	Rabbit	16000 mg/kg	-
, , , , , , , , , , , , , , , , , , , ,	LD50 Oral	Rat	>60000 mg/kg	_
Benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Formaldehyde, polymer with benzenamine, hydrogenated	LD50 Oral	Rat	300 mg/kg	-
2,4,6-tris[(dimethylamino)methyl]phenol	LD50 Dermal	Rat	1280 mg/kg	-
, , , , , , , , , , , , , , , , , , , ,	LD50 Oral	Rat	1200 mg/kg	-
Trientine	LD50 Dermal	Rabbit	1465 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-
SALICYLIC ACID	LD50 Oral	Rat	0.891 g/kg	-
BIS(P-AMINOCYCLOHEXYL) METHANE	LD50 Dermal	Rabbit	2.11 g/kg	-
	LD50 Oral	Rat	0.625 g/kg	-

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

### **Irritation/Corrosion**

**Conclusion/Summary** 

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.

## **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
rientine	skin	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** 

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

**Carcinogenicity** 

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

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# **Section 11. Toxicological information**

Reproductive toxicity

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

**Teratogenicity** 

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

### Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
<b>2</b> -Furanmethanol and mixtures which contain 25% or more.	Category 3		Respiratory tract irritation
Formaldehyde, polymer with 1,3-dimethylbenzene	Category 3		Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
<b>2</b> -Furanmethanol and mixtures which contain 25% or more.	Category 2	-	-
1,2-benzenedicarboxylic acid, di-C9-11-branched alkyl ester, C10-rich	Category 2	-	-
Formaldehyde, polymer with benzenamine, hydrogenated	Category 2	oral	kidneys

#### **Aspiration hazard**

Not available.

#### Potential chronic health effects

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.

#### **Additional information**

Causes digestive tract burns. 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. 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.

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# Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
Z-Furanmethanol and mixtures which contain 25% or more.	CAS: 98-00-0	ACUTE TOXICITY (oral) - Category 3
	EC: 202-626-1	ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	CAS: 9046-10-0 (n = 2-6)	CORROSIVE TO METALS - Category 1
(2 difficulty loans xy)	EC: 618-561-0	SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1
Polyaminoamide	CAS: 68082-29-1 EC: Polymer	AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE - Category 1
Formaldehyde, polymer with 1,3-dimethylbenzene	CAS: 26139-75-3	SKIN IRRITATION - Category 2
,		EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
	0.10 00545 40.4	Category 3
1,2-benzenedicarboxylic acid, di- C9-11-branched alkyl ester, C10-rich	CAS: 68515-49-1	ACUTE TOXICITY (inhalation) - Category 1
	EC: 271-091-4	SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1
Benzyl alcohol	CAS: 100-51-6 EC: 202-859-9	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 3
		EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2
Formaldehyde, polymer with benzenamine, hydrogenated	CAS: 135108-88-2	CORROSIVE TO METALS - Category 1
		ACUTE TOXICITY (oral) - Category 3 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3
2,4,6-tris[(dimethylamino)methyl]phenol	CAS: 90-72-2 EC: 202-013-9	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

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# Section 11. Toxicological information

Trientine	CAS: 112-24-3	CORROSIVE TO METALS - Category 1
	EC: 203-950-6	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 3
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
SALICYLIC ACID	CAS: 69-72-7	ACUTE TOXICITY (oral) - Category 4
	EC: 200-712-3	EYE IRRITATION - Category 2A
		TOXIC TO REPRODUCTION - Category 2
BIS(P-AMINOCYCLOHEXYL)METHANE	CAS: 1761-71-3	CORROSIVE TO METALS - Category 1
	EC: 217-168-8	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 1
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1

# Section 12. Ecological information

## A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Foly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	EC50 15 mg/l	Algae	72 hours
Formaldehyde, polymer with benzenamine, hydrogenated	Acute EC50 43.94 mg/l	Algae	72 hours
, ,	Acute EC50 15.4 mg/l	Daphnia	48 hours
	Acute LC50 63 mg/l	Fish	96 hours
2,4,6-tris[(dimethylamino) methyl]phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
SALICYLIC ACID	Acute EC50 1147.57 mg/l Fresh water	Daphnia - <i>Daphnia longispina</i> - Neonate	48 hours
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days

## B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Formaldehyde, polymer with benzenamine, hydrogenated	-	0 % - Not readily - 28 days	-	-
2,4,6-tris[(dimethylamino) methyl]phenol	OECD Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 days	-	-

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# **Section 12. Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-	-	-	Not readily
(2-aminomethylethoxy)- Benzyl alcohol Formaldehyde, polymer with benzenamine,	-	-	Readily Not readily
hydrogenated 2,4,6-tris[(dimethylamino) methyl]phenol	-	-	Not readily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Furanmethanol and mixtures which contain 25% or more.	0.3	-	Low
1,2-benzenedicarboxylic acid, di-C9-11-branched alkyl ester, C10-rich	8.8	-	High
Benzyl alcohol	0.87	-	Low
Formaldehyde, polymer with benzenamine, hydrogenated	2.68	209 to 219	Low
2,4,6-tris[(dimethylamino) methyl]phenol	0.219	-	Low
Trientine	-1.66 to -1.4	-	Low
SALICYLIC ACID	2.21 to 2.26	-	Low
BIS(P- AMINOCYCLOHEXYL) METHANE	2.03	-	Low

### D. Mobility in soil

Soil/Water partition coefficient

: Not available.

E. Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### A. 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.

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## Section 13. Disposal considerations

### B. Disposal precautions

Product code 00429356

: 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**

	UN	IMDG	IATA
A. UN number	UN3066	UN3066	UN3066
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	8	8	8
D. Packing group	II	II	II
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

UN : None identified.IMDG : None identified.IATA : None identified.

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

**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

### A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture) : None of the components are listed.

ISHA article 118 (Harmful substances requiring permission) : None of the components are listed.

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## Section 15. Regulatory information

**Article 2 of Youth Protection** Act on Substances Hazardous : It is not allowed to sell to persons under the age of 19.

to Youth

#### **Exposure Limits of Chemical Substances and Physical Factors**

The following components have an OEL:

**ISHA Enforcement Regs**: None of the components are listed.

**Annex 19 (Exposure** standards established for harmful factors)

**ISHA Enforcement Regs** : None of the components are listed.

Annex 11-5 (Harmful factors subject to Work

**Environment Measurement)** 

ISHA Enforcement Regs : None of the components are listed.

**Annex 22 (Harmful Factors Subject to Special Health Check**up)

Standard of Industrial : None of the components are listed.

Safety and Health **Annex 12 (Hazardous** substances subject to

control)

### B. Regulation according to Chemicals Control Act

: The following components are listed: 2-Furanmethanol Article 11 (TRI)

Article 18 Prohibited (K-

Reach Article 27)

: None of the components are listed.

**Article 19 Subject to** authorization (K-Reach

Article 25)

: None of the components are listed.

Article 20 Restricted (K-

Reach Article 27)

: None of the components are listed.

**Article 20 Toxic Chemicals (K-Reach** 

Article 20)

: Not applicable

**Korea inventory Article 39 (Accident Precaution Chemicals**)

: None of the components are listed.

: All components are listed or exempted.

C. Dangerous Materials

**Safety Management Act** 

: Class: Class 4 - Flammable Liquid Item: 5. Class 3 petroleums - Water-insoluble liquid

Threshold: 2000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

D. Wastes regulation Dispose of contents and container in accordance with all local, regional, national

and international regulations.

### E. Regulation according to other foreign laws

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**Product name AMERLOCK SEALER HARDENER NF** 

## Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

A. References : Korean Ministry of Environment; Chemical Control Act

Korean Ministry of Labor; Industrial Safety and Health Act

**NIER Notice** 

Registry of Toxic Effects of Chemical Substances (RTECS)

U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information

Retrieval) ECOTOX Database System.

**B. First issue date** : 4/18/2019 **C. Date of issue/Date of** : **6/25/2025** 

revision

D. Version : 5
Prepared by : EHS

E. Other

**✓** 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.

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