# **SAFETY DATA SHEET**



Date of issue 9/12/2024 (month/day/year)

Version 6

# Section 1. Chemical product and company identification

A. Product name : AMERLOCK 400C / 400GF CURE

**Product code** : 000001065894

Other means of identification

00289015; 00317785; 00317786; 00320207; 00325467

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.; Hardener.

**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:

: <del>182-52-210-8331</del>

## Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

CORROSIVE TO METALS - Category 1
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

AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

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

Symbol :







Korea (GHS) Page: 1/16

Product name AMERLOCK 400C / 400GF CURE

### Section 2. Hazards identification

Signal word

: Danger

**Hazard statements** 

: H226 - Flammable liquid and vapor.

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child. H410 - Very toxic 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.

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

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P234 - Keep only in original packaging. P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

Response

P391 - Collect spillage.

P390 - Absorb spillage to prevent material damage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P310 - IF INHALED: 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.

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P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.

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

P403 + P235 - Keep cool.

**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.

Korea (GHS) Page: 2/16

# Section 3. Composition/information on ingredients

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

**CAS** number : Not applicable.

Chemical name	Common name	Identifiers	%
ralc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	40 - <50
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	CAS: 108-10-1	10 -<20
Polyaminoamide	POLYAMIDE (POLYMER)	CAS: 68082-29-1	5 - <10
1,2-Benzenedicarboxylic acid, di-	1.2 BENZENEDICARBOXYLIC ACID,	CAS: 68515-49-1	5 - <10
C9-11-branched alkyl esters, C10-rich	DI-C9-C11-BRANCHED ALKYL		
	ESTERS C10 RICH		
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5
cyclohexanone	cyclohexanone	CAS: 108-94-1	1 - <5
3-aminomethyl-	Isophorone diamine	CAS: 2855-13-2	1 - <5
3,5,5-trimethylcyclohexylamine			
nonylphenols	4-nonylphenol, branched	CAS: 84852-15-3	1 - <5
4,4'-Isopropylidenediphenol, oligomeric	4,4'-Isopropylidenediphenol, oligomeric	CAS: 38294-64-3	1 - <5
reaction products with 1-chloro-	reaction products with 1-chloro-		
2,3-epoxypropane, reaction products	2,3-epoxypropane, reaction products		
with 3-aminomethyl-	with 3-aminomethyl-		
3,5,5-trimethylcyclohexylamine	3,5,5-trimethylcyclohexylamine		
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
2,4,6-tris(dimethylaminomethyl)phenol	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2	1 - <5
Fatty acids, tall-oil, reaction products	Fatty acids, tall-oil, reaction products	CAS: 61790-69-0	0.1 - <1
with diethylenetriamine	with diethylenetriamine		
salicylic acid	Salicylic acid	CAS: 69-72-7	0.1 - <1

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 1 First aid measures

Section 4. First	aid measures
A. 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.
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	: 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.
D. Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

Korea (GHS) Page: 3/16 Date of issue 9/12/2024 (month/day/year) **Version 6** 

Product name AMERLOCK 400C / 400GF CURE

### Section 4. First aid measures

Specific treatments

Product code 000001065894

: 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

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

: Do not use water jet.

B. Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic 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

halogenated compounds metal oxide/oxides

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

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. Collect spillage.

C. Methods and materials for containment and cleaning up

Korea (GHS) Page: 4/16 Date of issue 9/12/2024 (month/day/year)

Product code 000001065894

Product name AMERLOCK 400C / 400GF CURE

Version 6

### 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. 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

- 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. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. 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

Korea (GHS) Page: 5/16 Date of issue 9/12/2024 (month/day/year) Version 6

Product name AMERLOCK 400C / 400GF CURE

Product code 000001065894

## Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
₹alc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m³ 8 hours. Form: fibers
4-methylpentan-2-one	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 75 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
cyclohexanone	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	TWA: 25 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
2-methylpropan-1-ol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 50 ppm 8 hours.

# Recommended monitoring procedures

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

# B. 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.

#### 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 : butyl rubber

Korea (GHS) Page: 6/16

Product name AMERLOCK 400C / 400GF CURE

## Section 8. Exposure controls/personal protection

**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.

**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 : Amine-like. [Strong]

C. Odor threshold Not available. D. pH : Not applicable. E. Melting/freezing point : Not available. : >37.78°C (>100°F) F. Boiling point/boiling

range

: Closed cup: 37°C (98.6°F) G. Flash point

H. Evaporation rate : Not available. I. Flammability (solid, gas) : Not available.

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

K. Vapor pressure Vanor Prossure at 20°C

	vapor i roccaro at 20 G			Tapor procedio at co o		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
methylpentan-2-one	15.75128	2.1				

Media Result L. Solubility(ies)

> Not soluble cold water

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

**Relative density** 1.36

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition** 

temperature

Korea (GHS) Page: 7/16

Vanor prossure at 50°C

Product name AMERLOCK 400C / 400GF CURE

# Section 9. Physical and chemical properties

Ingredient name	°C	°F	Method
4-nonylphenol, branched	372	701.6	ASTM E 659

Q. Decomposition temperature

: Not available.

\_ Viscosity

: Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/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.

Possibility of hazardous reactions

: 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.

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 halogenated compounds metal oxide/

oxides

# **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Inhalation : Harmful if inhaled. May cause respiratory irritation.Ingestion : Corrosive to the digestive tract. Causes burns.

**Skin contact**: Causes severe burns. 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

Korea (GHS) Page: 8/16

Product name AMERLOCK 400C / 400GF CURE

## **Section 11. Toxicological information**

**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**

Product/ingredient name	Result	Species	Dose	Exposure
<b>∦</b> -methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
1,2-Benzenedicarboxylic acid, di-	LD50 Dermal	Rabbit	16000 mg/kg	-
C9-11-branched alkyl esters, C10-rich				
	LD50 Oral	Rat	>60000 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
3-aminomethyl-	LC50 Inhalation Dusts and	Rat	>5.01 mg/l	4 hours
3,5,5-trimethylcyclohexylamine	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/kg	-
nonylphenols	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
salicylic acid	LD50 Oral	Rat	0.891 g/kg	-

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

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
nonylphenols	Skin - Erythema/Eschar	Rabbit	4	-	-

**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.

Korea (GHS) Page: 9/16

Product name AMERLOCK 400C / 400GF CURE

# **Section 11. Toxicological information**

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
<b>3</b> -aminomethyl- 3,5,5-trimethylcyclohexylamine	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.

**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
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
cyclohexanone	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

Name	Classification	Route of exposure	Target organs
Fatty acids, tall-oil, reaction products with diethylenetriamine	Category 2	oral	-

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2

### Potential chronic health effects

Korea (G	HS) Page: 10/16
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Product name AMERLOCK 400C / 400GF CURE

# **Section 11. Toxicological information**

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

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

exposed to very low levels.

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

exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

#### **Additional information**

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
ralc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
4-methylpentan-2-one	CAS: 108-10-1	Category 3 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Polyaminoamide	CAS: 68082-29-1	EXPOSURE) (Narcotic effects) - Category 3 SERIOUS EYE DAMAGE - Category 1
1,2-Benzenedicarboxylic acid, di- C9-11-branched alkyl esters, C10-rich	CAS: 68515-49-1	AQUATIC HAZARD (LONG-TERM) - Category 4
benzyl alcohol	CAS: 100-51-6	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A ASPIRATION HAZARD - Category 2
cyclohexanone	CAS: 108-94-1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	CAS: 2855-13-2	CORROSIVE TO METALS - Category 1
		ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A
nonylphenols	CAS: 84852-15-3	CORROSIVE TO METALS - Category 1
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Korea (GHS) Page: 11/16

Date of issue 9/1	12/2024 (month/day/year)	Version 6
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Product name AMERLOCK 400C / 400GF CURE

**Product code 000001065894** 

# Section 11. Toxicological information

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS: 38294-64-3	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1
3,5,5-trimetriyicycionexylamine		SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3
2-methylpropan-1-ol	CAS: 78-83-1	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2
2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1
Fatty acids, tall-oil, reaction products with diethylenetriamine	CAS: 61790-69-0	CORROSIVE TO METALS - Category 1
		ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
salicylic acid	CAS: 69-72-7	ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2

# Section 12. Ecological information

### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
	Acute LC50 >179 mg/l Acute EC50 0.044 mg/l	Fish Crustaceans - <i>Moina</i>	96 hours 48 hours
2-methylpropan-1-ol 2,4,6-tris (dimethylaminomethyl) phenol	Acute LC50 0.221 mg/l Acute EC50 1100 mg/l Acute LC50 >100 mg/l	macrocopa Fish Daphnia Daphnia	96 hours 48 hours 48 hours

Korea (GHS) Page: 12/16

Product code 000001065894	Date of issue 9/12/2024 (month/day/year)	Version 6
Product name AMERLOCK 400C / 400GF CURE		
Section 12. Ecological informat	ion	

	Acute LC50 >100 mg/l	Fish	96 hours
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 - <i>Daphnia magna</i> -	21 days
	-	Neonate	-

### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
rmethylpentan-2-one 2,4,6-tris (dimethylaminomethyl) phenol	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test		adily - 28 days eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
methylpentan-2-one benzyl alcohol 2,4,6-tris (dimethylaminomethyl) phenol	- - -		-		Readily Readily Not rea	

### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✓ methylpentan-2-one	1.9	-	Low
1,2-Benzenedicarboxylic	8.8	-	High
acid, di-C9-11-branched			
alkyl esters, C10-rich			
benzyl alcohol	0.87	-	Low
cyclohexanone	0.86	-	Low
3-aminomethyl-	0.99	-	Low
3,5,5-trimethylcyclohexylamine			
nonylphenols	5.4	251.19	Low
4,4'-Isopropylidenediphenol,	-	5.13	Low
oligomeric reaction			
products with 1-chloro-			
2,3-epoxypropane, reaction			
products with			
3-aminomethyl-			
3,5,5-trimethylcyclohexylamine	1		Low
2-methylpropan-1-ol 2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)	0.219	-	Low
phenol			
salicylic acid	2.21 to 2.26		Low
Janoyno aoia	2.21 10 2.20		L-044

### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Korea (GHS) Page: 13/16

Product name AMERLOCK 400C / 400GF CURE

## Section 12. Ecological information

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.
- **B.** Disposal precautions
- : 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	UN3469	UN3469	UN3469
B. UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
C. Transport hazard class(es)	3 (8)	3 (8)	3 (8)
D. Packing group	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(4-nonylphenol, branched)	Not applicable.

#### **Additional information**

UN : None identified.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

# 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.

Korea (GHS) Page: 14/16

Product name AMERLOCK 400C / 400GF CURE

### **Section 14. Transport information**

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.

**Article 2 of Youth Protection Act on Substances Hazardous** to Youth

: It is not allowed to sell to persons under the age of 19.

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

The following components have an OEL: ralc, not containing asbestiform fibres

4-methylpentan-2-one cyclohexanone 2-methylpropan-1-ol

ISHA Enforcement Regs : The following components are listed: cyclohexanone

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

**ISHA Enforcement Regs** : The following components are listed: talc / soapstone, methyl isobutyl ketone,

: The following components are listed: methyl isobutyl ketone, cyclohexanone,

cyclohexanone, isobutyl alcohol

Annex 21 (Harmful factors subject to Work **Environment Measurement)** 

**ISHA Enforcement Regs** : The following components are listed: Methyl isobutyl ketone, Cyclohexanone,

Isobutyl alcohol

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

**Standard of Industrial** Safety and Health **Annex 12 (Hazardous** 

isobutyl alcohol

substances subject to control)

B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: Branched 4-nonylphenol

Article 18 Prohibited (K-Reach Article 27)

: None of the components are listed.

**Article 19 Subject to** authorization (K-Reach : None of the components are listed.

Article 25)

Korea (GHS) Page: 15/16

Product name AMERLOCK 400C / 400GF CURE

### Section 15. Regulatory information

**Reach Article 27)** 

Article 20 Restricted (K- : The following components are listed: nonylphenols

**Article 20 Toxic** 

**Chemicals (K-Reach** 

: Toxic

Article 20)

**Korea inventory** : All components are listed or exempted.

**Article 39 (Accident Precaution Chemicals**) : The following components are listed: nonylphenols

C. Dangerous Materials **Safety Management Act**  : Class: Class 4 - Flammable Liquid

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: |||

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

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 (Aguatic toxicity Information

Retrieval) ECOTOX Database System.

B. First issue date : 1/18/2021 C. Date of issue/Date of 9/12/2024

revision

D. Version : 6 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.

Korea (GHS) Page: 16/16