# **SAFETY DATA SHEET**



Date of issue 7/2/2021 (month/day/year)

Version 7

# Section 1. Chemical product and company identification

A. Product name : AMERLOCK 2/400 BASE RAL 1004

Product code : 00373172

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 information : PPG SSC

(680-090)

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

Ulsan, Korea

Tel: +82-52-210-8222

Email Address Korea.MSDS@PPG.COM

**Emergency telephone** 

number:

: +82-52-210-8222

# Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

AQUATIC HAZARD (LONG-TERM) - Category 2

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 :









Signal word : Warning

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Product name AMERLOCK 2/400 BASE RAL 1004

## Section 2. Hazards identification

Hazard statements : ► 226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H351 - Suspected of causing cancer.

H411 - Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

**Prevention** 

: P201 - Obtain special instructions before use.

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.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.

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

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it 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 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage: \( \bar{\pmathbb{P}}403 + 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

: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

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

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
reaction product: bisphenol-A-	EPOXY RESIN	CAS: 25068-38-6	50 - <60
(epichlorhydrin); epoxy resin			
Talc, not containing asbestiform fibers	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
1,2-Benzenedicarboxylic acid, di-	1.2 BENZENEDICARBOXYLIC ACID,	CAS: 68515-49-1	1 - <5
C9-11-branched alkyl esters, C10-rich	DI-C9-C11-BRANCHED ALKYL		
	ESTERS C10 RICH		
Solvent naphtha (petroleum), light	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	1 - <5
aromatic	LIGHT AROMATIC		
barium zinc sulfate sulfide	BARIUM ZINC SULFATE SULFIDE; C.I.	CAS: 1345-05-7	1 - <5
	PIGMENT WHITE 5		

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Product code 00373172 Date of issue 7/2/2021 (month/day/year) Version 7 Product name AMERLOCK 2/400 BASE RAL 1004 Section 3. Composition/information on ingredients 1,2,4-trimethylbenzene 1,2,4-TRIMETHYL BENZENE CAS: 95-63-6

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.

**ETHYLBENZENE** 

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

## Section 4. First aid measures

ethylbenzene

- A. Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- **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.
- : If swallowed, seek medical advice immediately and show this container or label. **D.** Ingestion Keep person warm and at rest. Do NOT induce vomiting.
- : In case of inhalation of decomposition products in a fire, symptoms may be delayed. E. Notes to physician The exposed person may need to be kept under medical surveillance for 48 hours.
  - **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

**Specific treatments** 

Suitable extinguishing media

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

**Unsuitable** extinguishing media : Do not use water jet.

: No specific treatment.

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 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

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1 - < 5

0.1 - < 1

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# Section 5. Fire-fighting measures

C. Special equipment for fire-fighting

Product code 00373172

- : 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. Avoid breathing 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

**Small spill** 

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

Large spill

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

# Section 7. Handling and storage

- A. Precautions for safe handling
- : Put on appropriate personal protective equipment (see Section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. 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,

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# Section 7. Handling and storage

lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**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 locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

## A. Occupational exposure limits

Ingredient name	Exposure limits
√alc, not containing asbestiform fibers	Ministry of Employment and Labor
•	(Republic of Korea, 1/2020).
	TWA: 2 mg/m³ 8 hours. Form: fibers
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m³ 8 hours. Form: total dust
	with less than 1% of free SiO2
1,2,4-trimethylbenzene	Ministry of Employment and Labor
•	(Republic of Korea, 1/2020).
	TWA: 25 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.

## Recommended monitoring procedures

- : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- 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

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# Section 8. Exposure controls/personal protection

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** : Chemical splash goggles.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer,

check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

estimated.

Gloves : butyl rubber

**Body protection**: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist

before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

discharges, clothing should include anti-static overalls, boots and gloves. **Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical produ

: 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

A. Appearance

Physical state : Liquid.
Color : Yellow.

B. Odor : Characteristic.
C. Odor threshold : Not available.
D. pH : Mot applicable.
E. Melting/freezing point : Not available.

F. Boiling point/boiling : >37

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 35°C (95°F)

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

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum),

light aromatic)

K. Vapor pressure : Not available.

L. Solubility : Insoluble in the following materials: cold water.

Solubility in water : Not available.

M. Vapor density : Not available.

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# Section 9. Physical and chemical properties

N. Relative density : 1.45

O. Partition coefficient: n-: Not applicable.

octanol/water

P. Auto-ignition temperature

: Not available.

Q. Decomposition

: Not available.

temperature R. Viscosity

: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

: Not applicable. S. Molecular weight

# 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 : May cause respiratory irritation.

: No known significant effects or critical hazards. Ingestion

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

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

#### Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness dryness cracking

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# **Section 11. Toxicological information**

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

pain or irritation watering redness

## **B.** Health hazards

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/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	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
•	LD50 Oral	Rat	5 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	_
	LD50 Oral	Rat	3.5 g/kg	-

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

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				UI	
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	

## **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
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	skin	Mouse	Sensitizing

## **Conclusion/Summary**

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Product name AMERLOCK 2/400 BASE RAL 1004

# Section 11. Toxicological information

: There are no data available on the mixture itself. Skin 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
▼alc, not containing asbestiform fibers	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
barium zinc sulfate sulfide	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

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

Not available.

#### **Aspiration hazard**

Name	Result
7, 0	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Potential chronic health effects

**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

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

#### **Additional information**

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#### Product name AMERLOCK 2/400 BASE RAL 1004

**Section 11. Toxicological information** 

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Chemical name	Common name	CAS#	GHS Classification
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	EPOXY RESIN	CAS: 25068-38-6	SKIN CORROSION/IRRITATION - Category 2
Tesiii			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Talc, not containing asbestiform fibers	Talc, non-asbestos form	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	CARCINOGENICITY - Category 2
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	1.2 BENZENEDICARBOXYLIC ACID, DI- C9-C11-BRANCHED	CAS: 68515-49-1	AQUATIC HAZARD (LONG-TERM) - Category 4
Solvent naphtha (petroleum), light aromatic	ALKYL ESTERS C10 RICH SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
barium zinc sulfate sulfide	BARIUM ZINC SULFATE	CAS:	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
parium zinc sullate sullide	SULFIDE; C.I. PIGMENT WHITE 5	1345-05-7	ACUTE TOXICITY (oral) - Category 4
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	FLAMMABLE LIQUIDS - Category 3
			ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
			AQUATIC HAZARD (LONG-TERM) -

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Product code 00373 Product name AMER	172 LOCK 2/400 BASE RAL 1004		7/2/2021 (month/day/year)	Version 7
Section 11. To	oxicological infor	mation		
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	Category 2 FLAMMABLE LIQUIDS - ( ACUTE TOXICITY (inhala CARCINOGENICITY - Ca ASPIRATION HAZARD - AQUATIC HAZARD (LON Category 3	ation) - Category 4 Itegory 2 Category 1

# Section 12. Ecological information

## A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide Solvent naphtha (petroleum), light aromatic	Acute LC50 >100 mg/l Fresh water Acute LC50 8.2 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Acute LC50 150 to 200 mg/l Fresh water	Daphnia Fish	48 hours 96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

## B. Persistence and degradability

Product/ingredient name	Test Result		Dose			Inoculum
eaction product: bisphenol- A-(epichlorhydrin); epoxy resin ethylbenzene	OECD 301F	5 % - 28 d	ays adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	-		-		Not readily	
ethylhenzene	l <u> </u>		_		Readily	1

## C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A-(epichlorhydrin); epoxy	2.64 to 3.78	31	low
resin 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	8.8	-	high
1,2,4-trimethylbenzene ethylbenzene	3.63 3.6	120.23 79.43	low low

## D. Mobility in soil

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Product name AMERLOCK 2/400 BASE RAL 1004

# **Section 12. Ecological information**

Soil/water partition coefficient (Koc)

: 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.
- **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	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
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.	reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, Solvent naphtha (petroleum), light aromatic)	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.

: 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

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# Section 14. Transport information

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) **Article 2 of Youth Protection**  : None of the components are listed.

**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: √alc, not containing asbestiform fibers titanium dioxide

1,2,4-trimethylbenzene

ethylbenzene

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

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

**ISHA Enforcement Regs** : The following components are listed: talc / soapstone, titanium dioxide

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 : The following components are listed: titanium dioxide, zinc and its compounds **Safety and Health Annex 12 (Hazardous** 

substances subject to control)

#### B. Regulation according to Chemicals Control Act

**CCA Article 11 (TRI)** : The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Barium and its compounds, Ethylbenzene

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: None of the components are listed.

: None of the components are listed.

: None of the components are listed.

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# Section 15. Regulatory information

**CCA Article 18** 

**Prohibited (K-Reach** 

Article 27)

**CCA Article 19 Subject** 

to authorization (K-Reach Article 25)

**CCA Article 20** 

**Restricted (K-Reach** 

**Korea inventory** 

Article 27)

**CCA Article 20 Toxic** 

Article 20)

**Chemicals (K-Reach** 

**CCA Article 39** (Accident Precaution

Chemicals)

C. <u>Dangerous Materials</u>

Safety Management Act

: Class: Class 4 - Flammable Liquid

: None of the components are listed.

: All components are listed or exempted.

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

Threshold: 1000 L Danger category: III

: Not applicable

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 (Aquatic toxicity Information

Retrieval) ECOTOX Database System.

B. Date of issue/Date of

revision

7/2/2021

C. Version : 7 **Prepared by** : EHS

D. Other

Indicates information that has changed from previously issued version.

**Disclaimer** 

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## **Section 16. Other information**

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

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