# SAFETY DATA SHEET



Date of issue 10/2/2024 (month/day/year)

Version 12

### Section 1. Chemical product and company identification

A. Product name<br/>Product code: AMERLOCK 2C/ 2GFA HARDENER<br/>: 00364943

#### 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	:	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:	1	+82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B
	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.
	cluding precautionary statements
Symbol	
Signal word	: Danger

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## Section 2. Hazards identification

Hazard statements	<ul> <li>1226 - 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. H318 - Causes serious eye damage. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H360 - May damage fertility or the unborn child. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>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.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P240 - Ground and bond container and receiving equipment.</li> <li>P234 - Keep only in original packaging.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P390 - Absorb spillage to prevent material damage.</li> <li>P370 + P378 - In case of fire: Never use water to extinguish.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.</li> <li>P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.</li> <li>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.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor.</li> <li>P321 - Specific treatment (see the label).</li> </ul>
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.
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	%
✓alc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	40 -
			<50
		EC: 238-877-9	
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	CAS: 108-10-1	10 -<20
		EC: 203-550-1	
Polyaminoamide	POLYAMIDE (POLYMER)	CAS: 68082-29-1 EC: Polymer	5 - <10
2,4,6-tris(dimethylaminomethyl)phenol	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 EC: 202-013-9	1 - <5
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5
	BEINZTE ALCOHOL	EC: 202-859-9	1 - <5
cyclohexanone	cyclohexanone	CAS: 108-94-1	1 - <5
oyolonexanone	oyolonexanone	EC: 203-631-1	
Fatty acids, C18-unsatd., dimers,	POLYAMIDE	CAS: 68082-29-1	1 - <5
oligomeric reaction products with tall-oil fatty acids and triethylenetetramine			
		EC: 500-191-5	
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	Isophorone diamine	CAS: 2855-13-2	1 - <5
5,5,5-unneurycyclonexylannine		EC: 220-666-8	
Phenol, dodecyl-, branched	Phenol, dodecyl-, branched	CAS: 121158-58-5	1 - <5
Thenoi, douedyi-, branched	Thenoi, dodecyi-, branched	EC: 310-154-3	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		
		EC: 500-101-4	
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
		EC: 201-148-0	4
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		
		EC: 271-091-4	
salicylic acid	Salicylic acid	CAS: 69-72-7	0.1 - <1
Sancyne aciu		EC: 200-712-3	0.1-11

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.

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### Section 4. First aid measures

Α.	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.
В.	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 Specific treatments		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. 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

Α.	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.
в.	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 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.
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### 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	co	ntainment 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 : 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 handling 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.

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### Section 7. Handling and storage

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

Exposure limits
ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 2 mg/m <sup>3</sup> (as asbestos).
Form: fibers.
ISHA Article 42 (Republic of Korea,
1/2020)
STEL 15 minutes: 75 ppm.
TWA 8 hours: 50 ppm.
ISHA Article 42 (Republic of Korea,
1/2020) Absorbed through skin.
TWA 8 hours: 25 ppm.
STEL 15 minutes: 50 ppm.
ISHA Article 42 (Republic of Korea,
1/2020)
TWA 8 hours: 50 ppm.

- 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
   Emissions from ventilation or work process equipment should be checked to ensure
  - exposure controls 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.

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### Section 8. Exposure controls/personal protection

Eye protection	: Chemical splash goggles and face shield.
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	: 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. 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.

Α.	Appearance			
	Physical state	1	Liquid.	
	Color	1	Not available.	
В.	Odor	:	Characteristic.	
С.	Odor threshold	:	Not available.	
D.	рН	:	Not applicable.	
Ε.	Melting/freezing point	1	Not available.	
F.	Boiling point/boiling range	:	>37.78°C (>100°F)	
G.	Flash point	1	Closed cup: 36°C (96	6.8°F)
н.	Evaporation rate	1	Not available.	
Т.	Flammability (solid, gas)	:	Not available.	
J.	Lower and upper explosive (flammable) limits	:	Not available.	
к.	Vapor pressure	:		Va
			Ingredient name	mm H
			4-methylpentan-2-one	15.751

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L. Solubility(ies)

	Vapo	r Pressu	ire at 20°C	Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
4-methylpentan-2-one	15.75128	2.1					
Media	Re	sult	-				
cold water	No	t soluble	•				

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S	ection 9. Physic	al	and chemical pro	operties				
	Solubility in water	:	Not available.					
М.	Vapor density	:	Not available.					
N.	Relative density	:	1.36					
N. O.	Partition coefficient: n- octanol/water	:	Not applicable.					
Ρ.	Auto-ignition temperature	:						
			Ingredient name	°C	°F	Method		
			Phenol, dodecyl-, branched	379 to 389	714.2 to 732.2			
Q.	Decomposition temperature	:	Not available.	I		ł		
R.	Viscosity	:	Øynamic (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.					
S.	Molecular weight	:	Not applicable.					

## Section 10. Stability and reactivity

Α.	Chemical stability Possibility of hazardous reactions		The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
в.	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 like routes of exposure	ely : Not available.
Potential acute health ef	f <u>ects</u>
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Over expective signalay	mptoms

#### Over-exposure signs/symptoms

## Section 11. Toxicological information

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

Product/ingredient name	Result	Species	Dose	Exposure
✓-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	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
-	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
Fatty acids, C18-unsatd., dimers,	LD50 Dermal	Rat	>2000 mg/kg	-
oligomeric reaction products with tall-oil				
fatty acids and triethylenetetramine				
	LD50 Oral	Rat	>2000 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	-
Phenol, dodecyl-, branched	LD50 Dermal	Rabbit	2520 mg/kg	-
	LD50 Oral	Rat	5660 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	-
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1,2-Benzenedicarboxylic acid, di- C9-11-branched alkyl esters, C10-rich	LD50 Dermal	Rabbit	16000 mg/kg	-
•	LD50 Oral	Rat	>60000 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
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
-	Skin - Irritant	Human	-	-	-

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
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitizing
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	skin	Guinea pig	Sensitizing

<u>Conclusion/Summary</u>	
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.
<u>Teratogenicity</u> Conclusion/Summary	: There are no data available on the mixture itself.

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

### Section 11. Toxicological information

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)

Not available.

#### Aspiration hazard

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

#### 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 exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.

#### **Additional 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. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

Chemical name	Identifiers	GHS Classification	
$\overline{\mathbf{F}}$ alc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	
	EC: 238-877-9	3 7	
4-methylpentan-2-one	CAS: 108-10-1	FLAMMABLE LIQUIDS - Category 2	
	EC: 203-550-1	ACUTE TOXICITY (inhalation) - Category 4	
		EYE IRRITATION - Category 2A	
		CARCINOGENICITY - Category 2	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE	
		EXPOSURE) (Respiratory tract irritation) -	
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# Section 11. Toxicological information

Polyaminoamide         Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SERIOUS EYE DAMAGE - Category 1 EC: Polymer           2.4.6-tris(dimethylaminomethyl)phenol         CAS: 80-72-2 EC: 202-013-9         CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (areal) - Category 4 ACUTE TOXICITY (areal) - Category 1 CARCMORENICITY (areal) - Category 1 ACUTE TOXICITY (areal) - Category 1 SININ SENSITIZATION - Category 1 S	_		
2.4,6-tris(dimethylaminomethyl)phenol       CAS: 90-72-2       CORROSIVE TO METALS - Category 1         EC: 202-013-9       ACUTE TOXICITY (dermal) - Category 4         benzyl alcohol       CAS: 100-51-6       SERIOUS EVE DAMAGE - Category 1         benzyl alcohol       CAS: 100-51-6       SERIOUS EVE DAMAGE - Category 1         cyclohexanone       CAS: 100-51-6       SERIOUS EVE DAMAGE - Category 4         cyclohexanone       CAS: 100-51-6       SERIOUS EVE DAMAGE - Category 2         cyclohexanone       CAS: 108-94-1       FLAMMABLE LQUIDS - Category 3         Correct ToXICITY (idermal) - Category 4       EC: 203-631-1       ACUTE TOXICITY (idermal) - Category 4         ACUTE TOXICITY (idermal) - Category 4       ACUTE TOXICITY (idermal) - Category 4         ACUTE TOXICITY (idermal) - Category 2       SERIOUS EVE DAMAGE - Category 1         category 3       CAS: 68082-29-1       SIN IRRITATION - Category 2         category 3       SIN IRRITATION - Category 1       Category 2         serious and triethylenetetramine       CAS: 2855-13-2       SIN IRRITATION - Category 1         category 3       SIN IRRITATION - Category 1       SIN IRRITATION - Category 1         serious Category 1       CAS: 2855-13-2       SIN IRRITATION - Category 1         category 1       SIN IRRITATION - Category 1       SIN IRRITATION - Category 1      <	Polyaminoamide		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
benzyl alcohol       CAS: 100-51-6       ACUTE TOXICITY (orangl) - Category 4         cyclohexanone       CC: 202-859-9       ACUTE TOXICITY (inmalation) - Category 4         cyclohexanone       CAS: 108-94-1       FLAMMABLE LIQUIDS - Category 4         CVE IRRITATION - Category 4       EC: 203-631-1       ACUTE TOXICITY (inmalation) - Category 4         ACUTE TOXICITY (inmalation) - Category 4       EC: 203-631-1       ACUTE TOXICITY (orang) - Category 4         ACUTE TOXICITY (inmalation) - Category 4       ACUTE TOXICITY (inmalation) - Category 4       ACUTE TOXICITY (inmalation) - Category 4         Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine       CAS: 68082-29-1       SKIN IRRITATION - Category 1         S-aminomethyl-       CAS: 68082-29-1       SERIOUS EYE DAMAGE - Category 1       CAS: 68082-29-1         S-aminomethyl-       CAS: 2855-13-2       CORROSIVE TO METALS - Category 1         S-5.5-trimethylcyclohexylamine       EC: 200-666-8       ACUTE TOXICITY (oral) - Category 1         SKIN CORROSION - Category 1       SKIN SENSITIZATION - Category 1         S-5.5-trimethylcyclohexylamine       CAS: 38294-64-3       CORROSIVE TO METALS - Category 1         SKIN CORROSION - Category 1       SKIN CORROSION - Category 1       AQUATIC HAZARD (LONG-TERM) - Category 1         A: A-Sopropylidenediphenol, oligomeric reaction products with 1-foloro- <td>2,4,6-tris(dimethylaminomethyl)phenol</td> <td>CAS: 90-72-2</td> <td>ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1C</td>	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1C
cyclohexanoneCAS: 108-94-1FLAMMABLE LIQUIDS - Category 3CyclohexanoneCAS: 108-94-1FLAMMABLE LIQUIDS - Category 4ACUTE TOXICITY (dermal) - Category 4ACUTE TOXICITY (inhilation) - Category 4ACUTE TOXICITY (inhilation) - Category 2SERIOUS EYE DAMAGE - Category 1CARCINGGENICITY - Category 3CAS: 68082-29-1Fatty acids, C18-unsatd, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramineCAS: 68082-29-1Scin IRRITATION - Category 1CAS: 68082-29-1Scin IRRITATION - Category 2SERIOUS EYE DAMAGE - Category 1S-aminomethyl-CAS: 2855-13-23.5,5-trimethylcyclohexylamineCAS: 2855-13-2Phenol, dodecyl-, branchedCAS: 121158-58-5CAS: 121158-58-5CORROSIVE TO METALS - Category 1SKIN CORROSION - Category 1SKIN CORROSION - Category 1SANGE YE DAMAGE - Category 1SKIN CORROSION - Category 1Autor CHAZARD (LONG-TERM) - Category 1CAS: 38294-64-3Correstive To METALS - Category 1SKIN SERIOUS EYE DAMAGE - Category 1Autor CHAZARD (CONG-TERM) - Category 1CAS: 78-83-1EC: 200-101-4SKIN INCORROSION - Category 1SKIN SENSITIZATION - Category 1SKIN SENSITIZATION - Category 3SKIN SENSITIZATION - Category 1SKIN CORROSION - Category 3SKIN	benzyl alcohol		ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramineCAS: 68082-29-1SKIN IRRITATION - Category 23-aminomethyl- 3,5,5-trimethylcyclohexylamineEC: 500-191-5SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 CORROSIVE TO METALS - Category 1 SKIN SENSITIZATION - Category 1 SKIN CORROSION - Category 1 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 3 SKIN IRRITATION - Category 2 SERIOUS SEYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS SEYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS SEYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS SEYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS SEYE DAMAGE - Catego	cyclohexanone		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) -
3-aminomethyl- 3,5,5-trimethylcyclohexylamineCAS: 2855-13-2SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 2 CORROSIVE TO METALS - Category 1Phenol, dodecyl-, branchedCAS: 220-666-8ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A CORROSIVE TO METALS - Category 1 SKIN SENSITIZATION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN CORROSION - Category 1A CORROSIVE TO METALS - Category 1 SKIN CORROSION - Category 1A CORROSIVE TO METALS - Category 1 SKIN CORROSION - Category 1A CORROSIVE TO METALS - Category 1 TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 CORROSIVE TO METALS - Category 1 CORROSIVE TO METALS - Category 1 CAS: 38294-64-32-methylpropan-1-olCAS: 78-83-1 EC: 201-148-0SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 3 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 3 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 1 SKIN SENSITIZATION - Category 3 SKIN IRRITATION - Category 1 	oligomeric reaction products with tall-oil	CAS: 68082-29-1	
3,5,5-trimethylcyclohexylamineEC: 220-666-8ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN CORROSION - Category 1 CAS: 38294-64-34,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with 3-aminomethyl- 3,5,5-trimethylcyclohexylamineCAS: 38294-64-32-methylpropan-1-olCAS: 78-83-1 EC: 201-148-0SKIN CORROSION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 3 SKIN IRRITATION - Category 3 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 3 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 3 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 3 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 3 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 3 SERIOUS EYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 1 SERIOUS EYE DAMAGE - Category 1 SERIOUS EY			SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 2
Phenol, dodecyl-, branchedCAS: 121158-58-5 EC: 310-154-3SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A 			
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with 3-aminomethyl- 3,5,5-trimethylcyclohexylamineCAS: 38294-64-3CORROSIVE TO METALS - Category 1EC: 500-101-4SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN IRRITATION - Category 1 SERIOUS EYE DAMAGE - CATEGORY 1<	Phenol, dodecyl-, branched	CAS: 121158-58-5	SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A CORROSIVE TO METALS - Category 1 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (ACUTE) - Category 1
EC: 500-101-4SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE	reaction products with 1-chloro- 2,3-epoxypropane, reaction products with 3-aminomethyl-	CAS: 38294-64-3	
Korea (GHS) Page: 12/17		CAS: 78-83-1	SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
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Product code 00364943 Product name AMERLOCK 2C/ 2GFA		issue 10/2/2024 (month/day/year)	Version 12
Section 11. Toxicologic	al information		
1,2-Benzenedicarboxylic acid, di- C9-11-branched alkyl esters, C10-rich salicylic acid	CAS: 68515-49-1 EC: 271-091-4 CAS: 69-72-7 EC: 200-712-3	EXPOSURE) (Respiratory tract in Category 3 SPECIFIC TARGET ORGAN TO) EXPOSURE) (Narcotic effects) - ( ASPIRATION HAZARD - Categor AQUATIC HAZARD (LONG-TERI ACUTE TOXICITY (oral) - Categor SERIOUS EYE DAMAGE - Categor TOXIC TO REPRODUCTION - C	KICITY (SINGLE Category 3 y 2 M) - Category 4 ory 4 ory 1

# Section 12. Ecological information

### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
2,4,6-tris (dimethylaminomethyl) phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 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
<ul> <li>#-methylpentan-2-one</li> <li>2,4,6-tris</li> <li>(dimethylaminomethyl)</li> <li>phenol</li> </ul>	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test		adily - 28 days eadily - 28 days	-	-
Phenol, dodecyl-, branched	-	78 % - 28 0	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability
<ul> <li>Methylpentan-2-one</li> <li>2,4,6-tris</li> <li>(dimethylaminomethyl)</li> <li>phenol</li> <li>benzyl alcohol</li> <li>Fatty acids, C18-unsatd.,</li> <li>dimers, oligomeric reaction</li> <li>products with tall-oil fatty</li> <li>acids and</li> <li>triethylenetetramine</li> </ul>	- - -		-		Readily Not readily Readily Not readily
				Kore	a (GHS) Page: 13/17

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#### Product name AMERLOCK 2C/ 2GFA HARDENER

## Section 12. Ecological information

Phenol, dodecyl-, branched -

```
Readily
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#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✓-methylpentan-2-one	1.9	-	Low
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)			
phenol			
benzyl alcohol	0.87	-	Low
cyclohexanone	0.86	-	Low
3-aminomethyl-	0.99	-	Low
3,5,5-trimethylcyclohexylamine			
Phenol, dodecyl-, branched	6.1	1601	High
4,4'-Isopropylidenediphenol,	-	5.13	Low
oligomeric reaction			
products with 1-chloro-			
2,3-epoxypropane, reaction			
products with			
3-aminomethyl-			
3,5,5-trimethylcyclohexylamine			
2-methylpropan-1-ol	1	-	Low
1,2-Benzenedicarboxylic	8.8	-	High
acid, di-C9-11-branched			
alkyl esters, C10-rich			
salicylic acid	2.21 to 2.26	-	Low

#### D. Mobility in soil

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 2 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	ΙΑΤΑ
A. UN number	UN3470	UN3470	UN3470
B. UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
C. Transport hazard class(es)	8 (3)	8 (3)	8 (3)
D. Packing group		II	II
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.	(Polyamide)	Not applicable.

#### **Additional information**

IMDG

ΙΑΤΑ

- : The marine pollutant mark is not required when transported in sizes of  $\leq$ 5 L or  $\leq$ 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

**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

Α.	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			

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

The following components have an OEL:

19.

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## Section 15. Regulatory information

	Annex 19 (Exposure standards established for harmful factors)	:	The following components are listed: cyclohexanone
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: talc / soapstone, methyl isobutyl ketone, cyclohexanone, isobutyl alcohol
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Methyl isobutyl ketone, Cyclohexanone, Isobutyl alcohol
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: methyl isobutyl ketone, cyclohexanone, isobutyl alcohol
В.	Regulation according to	Ch	emicals Control Act
	Article 11 (TRI)	:	None of the components are listed.
	Article 18 Prohibited (K- Reach Article 27)	1	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)	1	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	1	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to	oth	<u>er foreign laws</u>
	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.
В.	First issue date	:	12/28/2017
С.	Date of issue/Date of revision	:	10/2/2024
D.	Version	:	12
	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.