# **SAFETY DATA SHEET**



Date of issue (month/day/year) 12/4/2024

Version 2

## Section 1. Chemical product and company identification

: PITT-THERM 1000 FX HARDENER WHITE A. Product name **Product code** : 00468574

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

## Section 2. Hazards identification

A. Hazard classification	<ul> <li>CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 This product is classified in accordance with the Industrial Safety and Health Act and</li> </ul>
	This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.
	SERIOUS EYE DAMAGE - Category 1 SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 This product is classified in accordance with the Industrial Safety and Health Ad

#### B. GHS label elements, including precautionary statements

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Signal word	: Danger
Hazard statements	: ₩290 - May be corrosive to metals.
	H302 - Harmful if swallowed.
	H314 - Causes severe skin burns and eye damage.
	H317 - May cause an allergic skin reaction.

- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.

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## Section 2. Hazards identification

Precautionary statements	
Prevention	<ul> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P234 - Keep only in original packaging.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapour.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P390 - Absorb spillage to prevent material damage.</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</li> <li>CENTER or doctor. Rinse mouth. Do NOT induce vomiting.</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. Immediately call a POISON CENTER or doctor.</li> <li>P321 - Specific treatment (see the label).</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do	: Causes digestive tract burns.

c. Other nazards which do not result in classification

# Section 3. Composition/information on ingredients

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

**CAS** number

: Not applicable.

Chemical name	Common name	Identifiers	%
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	POLYAMIDE	CAS: 68082-29-1	40 - <50
, ,		EC: 500-191-5	
glass, oxide, chemicals	GLASS OXIDES	CAS: 65997-17-3 EC: 266-046-0	10 -<20
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	CAS: 8007-24-7 EC: 232-355-4	5 - <10
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6 EC: 202-859-9	5 - <10
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	POLYOXY PROPYLENE DIAMINE	CAS: 9046-10-0 (n = 2-6)	5 - <10
(),		EC: 618-561-0	
3,6-diazaoctanethylenediamin	TRIETHYLENETETRAMINE	CAS: 112-24-3 EC: 203-950-6	1 - <5
2,4,6-tris(dimethylaminomethyl)phenol	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 EC: 202-013-9	1 - <5
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## Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First aid measures

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 recognised 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 the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Е.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	1	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. Firefighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	1	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	-	None known.
В.	Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst. 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 metal oxide/oxides

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## Section 5. Firefighting measures

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.

## Section 6. Accidental release measures

1	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 spilt material. Do not breathe vapour or mist.
	Provide adequate ventilation. Wear appropriate respirator when ventilation is
	inadequate. Put on appropriate personal protective equipment.
	:

**B. Environmental** precautions : Avoid dispersal of spilt 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 material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. 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. Absorb spillage to prevent material damage. Approach the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Α.	Precautions for safe : handling	Fut 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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
В.	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 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 corrosive resistant container with a resistant inner liner. Store locked up. 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

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## Section 7. Handling and storage

unlabelled 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
	glass, oxide, chemicals			ISHA Article 42 (Republic of Korea, 1/2020) [Mineral wool fiber] TWA 8 hours: 10 mg/m <sup>3</sup> . Form: fibers.
	Recommended monitoring procedures	:	Reference should be made to appropri- national guidance documents for methor substances will also be required.	ate monitoring standards. Reference to ods for the determination of hazardous
в.	Appropriate engineering controls	:		s, gas, vapour or mist, use process other engineering controls to keep worker ow any recommended or statutory limits.
	Environmental exposure controls	:		
<b>C</b> .	Personal protective equip	ome	ent	
	Respiratory protection	:	hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use	n known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is
	Eye protection	1	Chemical splash goggles and face shi	eld.
	Hand protection	:	be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	ers. In the case of mixtures, consisting of
	Gloves	1	nitrile neoprene	
	Body protection	:		body should be selected based on the task d and should be approved by a specialist
	Hygiene measures	:	Wash hands, forearms and face thoro eating, smoking and using the lavatory Appropriate techniques should be use Contaminated work clothing should no	d to remove potentially contaminated clothing. t be allowed out of the workplace. Wash Ensure that eyewash stations and safety

Vapour pressure at 50°C

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## 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	4	Liquid.				
	Colour	1	White.				
В.	Odour	1	Characteristic.				
С.	Odour threshold	:	Not available.				
D.	рН	1	Not applicable.				
Ε.	Melting/freezing point	1	Not available.				
F.	Boiling point/boiling range	1	>37.78°C (>100°F)				
G.	Flash point	:	Closed cup: 128°C (2	26	62.4°F)		
н.	Evaporation rate	:	Not available.				
Т.	Flammability (solid, gas)	:	Not available.				
J.	Lower and upper explosive (flammable) limits	:	Not available.				
Κ.	Vapour pressure	:			Vapour F	Pressi	ure at 20°C
			Ingredient name			Pa	Method

			vapour r ressure ar				
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-α (2-aminomethylethoxy)		0.09		1.575	0.21	
Solubility(ies)	Media	Re	sult				
	cold water	No	ot soluble	e			
Solubility in water	: Not available.						
Vapour density	: Not available.						
Relative density	: 0.56						
Partition coefficient: n- octanol/water	: Not applicable.						
Auto-ignition temperature	:						
	Ingredient name		°C	°F		Method	
	3,6-diazaoctanethylene	ediamin	337.78	640			
Decomposition temperature	: Not available.			I	Į		

: Dynamic (room temperature): Not available.

: Not available.

: Not applicable.

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

Viscosity R.

L. Solubility(ies)

- Flow time (ISO 2431) **Molecular weight**
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## 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: oxidising agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

## Section 11. Toxicological information

A. Information of exposit		tes : Not available.
Potential ac	ute health effec	<u>cts</u>
Inhalatior	n :	No known significant effects or critical hazards.
Ingestion	:	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Skin cont	act :	Causes severe burns. May cause an allergic skin reaction.
Eye conta	ict :	Causes serious eye damage.
<u>Over-expos</u>	ure signs/symp	<u>itoms</u>
Inhalatior	n :	No specific data.
Ingestion	:	Adverse symptoms may include the following: stomach pains
Skin cont	act :	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Eye conta	act :	Adverse symptoms may include the following: pain watering redness

#### B. Health hazards

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	LD50 Dermal	Rat	2980 mg/kg	-
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## Section 11. Toxicological information

U				
	LD50 Oral	Rat	2885 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
-	LD50 Oral	Rat	1716 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Human	-	-	-
Conclusion/Summary		•	•		

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

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising

<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.
<u>Carcinogenicity</u> 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)

Not available.

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

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## Section 11. Toxicological information

Not available.

#### Aspiration hazard

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2

#### Potential chronic health effects

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **Additional information**

Causes digestive tract burns. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. 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	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	CAS: 68082-29-1	SKIN IRRITATION - Category 2	
	EC: 500-191-5	SERIOUS EYE DAMAGE - Category 1 SKIN SENSITISATION - Category 1A LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
glass, oxide, chemicals	CAS: 65997-17-3 EC: 266-046-0	Not classified.	
Cashew, nutshell liq.	CAS: 8007-24-7 EC: 232-355-4	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITISATION - Category 1B LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4	
benzyl alcohol	CAS: 100-51-6 EC: 202-859-9	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A ASPIRATION HAZARD - Category 2	
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	CAS: 9046-10-0 (n = 2-6)		
	EC: 618-561-0	SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
3,6-diazaoctanethylenediamin	CAS: 112-24-3 EC: 203-950-6	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4	
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Section 11. Toxicological information				
2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 EC: 202-013-9	ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITISATION - Category 1B LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1		

# Section 12. Ecological information

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	EC50 15 mg/l	Algae	72 hours
2,4,6-tris (dimethylaminomethyl) phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
F	Acute LC50 >100 mg/l	Fish	96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,4,6-tris (dimethylaminomethyl) phenol	OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 days	-	-
Product/ingredient name	Aquatic half-life	Photolysis	Bi	odegradability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine benzyl alcohol Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)- 2,4,6-tris (dimethylaminomethyl) phenol	-	- - -	Re No	t readily adily t readily t readily

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## Section 12. Ecological information

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Cashew, nutshell liq.	>4.78	-	High
benzyl alcohol	0.87	-	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl) phenol			

## D. <u>Mobility in soil</u>

Soil/water partition : Not available. coefficient (Koc)

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Α.	Disposal methods	: The generation of waste should be avoided or minimised 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.
в.	Disposal precautions	: This material and its container must be disposed of in a safe way. Care should be

# 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
A. UN number	A. UN number UN3066		UN3066
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	8	8	8
D. Packing group	Ш	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.	(Polyamide)	Not applicable.

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## Section 14. Transport information

#### Additional information

UN	: None identified.
IMDG	:The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: 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

	U U		•			
Α.	Regulation according to l	SH	IA III III III III III III III III III			
	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	ha	ave an OEL:			
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.			
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	None of the components are listed.			
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Glass fiber dusts			
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	None of the components are listed.			
-	Demolection according to C		micele Control Act			

B. Regulation according to Chemicals Control Act

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## Section 15. Regulatory information

	Article 11 (TRI)	:	None of the components are listed.
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	1	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 5. Class 3 petroleums - Water-insoluble liquid Threshold: 2000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	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

Α.	References	<ul> <li>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.</li> </ul>
В.	First issue date	: 5/5/2023
C.	Date of issue/Date of revision	: 12/4/2024
D.	Version	: 2
	Prepared by	: EHS
Ε.	Other	

✓ Indicates information that has changed from previously issued version.

**Disclaimer** 

Product name PITT-THERM 1000 FX HARDENER WHITE

## 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.