# SAFETY DATA SHEET



#### Date of issue 10/25/2023 (month/day/year)

Version 5

## Section 1. Chemical product and company identification

Α.	Product name	: PITT-CHAR XP HARDENER BLACH		
	Product code	1	00393310	

#### B. Relevant identified uses of the substance or mixture and uses advised against

	Product use Use of the substance/ mixture		Professional applications, Used by spraying. Coating.
	Uses advised against	:	Product is not intended, labelled or packaged for consumer use.
C.	Supplier's or Importer's information Email Address	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8222

## Section 2. Hazards identification

A. Hazard classification : CORROSIVE TO METALS - Category 1	
SKIN CORROSION - Category 1C	
SERIOUS EYE DAMAGE - Category 1	
SKIN SENSITIZATION - Category 1	
CARCINOGENICITY - Category 1A	
TOXIC TO REPRODUCTION - Category 2	
SPECIFIC TARGET ORGAN TOXICITY (REPEATE	D EXPOSURE) - Category 2
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

: Danger

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# Section 2. Hazards identification

Hazard statements	<ul> <li>         Image: P290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (urinary system) H411 - Toxic to aquatic life with long lasting effects.    </li> </ul>
Precautionary statements	3
Prevention	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <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 vapor.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P390 - Absorb spillage to prevent material damage.</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</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. Immediately call a POISON CENTER or doctor.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</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> </ul>
Storage	: Not applicable.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
C. Other hazards which do not result in classification	: Causes digestive tract burns.

#### classification

# Section 3. Composition/information on ingredients

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

#### CAS number

#### : Not applicable.

Chemical name	Common name	Identifiers	%
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	POLYAMIDE	CAS: 68082-29-1	40 - <50
melamine	MELAMINE	CAS: 108-78-1	20 - <30
4,4'-Isopropylidenediphenol, ethoxylated	4,4'-Isopropylidenediphenol, ethoxylated (EO> 4.5 moles)	CAS: 32492-61-8 (EO> 4.5 moles)	5 - <10
2,4,6-tris(dimethylaminomethyl)phenol	2;4;6 TRIS (DIMÉTHYLAMINOMETHYL) PHENOL	CAS: 90-72-2	5 - <10
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### Section 3. Composition/information on ingredients

3,6-diazaoctanethylenediamin glass, oxide, chemicals crystalline silica, respirable powder (>10 microns)

TRIETHYLENETETRAMINE GLASS OXIDES QUARTZ (>10 microns)

CAS: 112-24-3 1 - <5 CAS: 65997-17-3 CAS: 14808-60-7

1 - <5 0.1 - <1

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

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

### Section 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.
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	4	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 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.

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### Section 5. Fire-fighting measures

	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides 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.

### 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### C. Methods and materials for containment and cleaning up

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 release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

A. Precautions for safe handling
 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. 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. 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.

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

### Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

	Ingredient name		Exposure limits
	glass, oxide, chemicals crystalline silica, respirable	powder (>10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Mineral wool fiber] TWA: 10 mg/m <sup>3</sup> 8 hours. Form: fibers Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	Recommended monitoring procedures		opriate monitoring standards. Reference to nethods for the determination of hazardous
В.	Appropriate engineering controls		umes, gas, vapor or mist, use process enclosures, ngineering controls to keep worker exposure to ecommended or statutory limits.
	Environmental exposure controls	they comply with the requirements cases, fume scrubbers, filters or er	process equipment should be checked to ensure of environmental protection legislation. In some ngineering modifications to the process luce emissions to acceptable levels.
<b>c</b> .	Personal protective equip	ment	
	Respiratory protection	hazards of the product and the sat workers are exposed to concentra appropriate, certified respirators.	ed on known or anticipated exposure levels, the fe working limits of the selected respirator. If tions above the exposure limit, they must use Use a properly fitted, air-purifying or air-fed oved standard if a risk assessment indicates this is
	Eye protection	: Chemical splash goggles and face	e shield.
	Hand protection	be worn at all times when handling this is necessary. Considering the check during use that the gloves a should be noted that the time to be different for different glove manufa several substances, the protection estimated.	oves complying with an approved standard should g chemical products if a risk assessment indicates e parameters specified by the glove manufacturer, are still retaining their protective properties. It reakthrough for any glove material may be acturers. In the case of mixtures, consisting of a time of the gloves cannot be accurately
	Gloves	: prítrile neoprene	

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## Section 8. Exposure controls/personal protection

Body protection	<ul> <li>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.</li> </ul>
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	÷	Liquid.							
	Color	÷	Black.							
	Odor	÷	Characteristic.	Characteristic.						
C.	Odor threshold	1	Not available.							
D.	рН	1	Not applicable.							
Е.	Melting/freezing point	1	Not available.							
F.	Boiling point/boiling range	:	>37.78°C (>100°F)							
G.	Flash point	1	Closed cup: Not appl	icable.						
н.	Evaporation rate	1	Not available.							
Ι.	Flammability (solid, gas)	:	Not available.							
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang	e: Lower:	1.1% Uj	oper: (	6.4% (3	,6-diaz	aoctaneth	ylenediamin)
ĸ	Vapor pressure	:	Vapor Pressure at 20°C		Vapor pressure at 50°C					
<b>N</b> .										
K.			Ingredient name	mm Hg	kPa	Meth		mm Hg	kPa	Method
ĸ.			Ingredient name 4,6-tris (dimethylaminomethyl) phenol	mm Hg		1	od	mm		Method
			<b>2</b> ,4,6-tris (dimethylaminomethyl)	<b>mm Hg</b> 0.056	kPa	Meth	od	mm		Method
L.		:	<b>2</b> ,4,6-tris (dimethylaminomethyl) phenol	mm Hg 0.056 Re	<b>kPa</b> 0.0075	Meth	od	mm		Method
		:	2,4,6-tris (dimethylaminomethyl) phenol Media	mm Hg 0.056 Re	kPa 0.0075 sult	Meth	od	mm		Method
L.	Solubility(ies)		2,4,6-tris (dimethylaminomethyl) phenol Media cold water	mm Hg 0.056 Re	kPa 0.0075 sult	Meth	od	mm		Method
L. M.	Solubility(ies) Solubility in water	:	9,4,6-tris         (dimethylaminomethyl)         phenol         Media         ©old water         Not available.	mm Hg 0.056 Re	kPa 0.0075 sult	Meth	od	mm		Method
L.	Solubility(ies) Solubility in water Vapor density	:	7,4,6-tris         (dimethylaminomethyl)         phenol         Media         ©old water         Not available.         Not available.	mm Hg 0.056 Re	kPa 0.0075 sult	Meth	od	mm		Method
L. M. N.	Solubility(ies) Solubility in water Vapor density Relative density Partition coefficient: n-	:	9,4,6-tris         (dimethylaminomethyl)         phenol         Media         ©old water         Not available.         Not available.         1.14	mm Hg 0.056 Re	kPa 0.0075 sult	Meth	od	mm		Method
L. M. N. O.	Solubility(ies) Solubility in water Vapor density Relative density Partition coefficient: n- octanol/water Auto-ignition	:	9,4,6-tris         (dimethylaminomethyl)         phenol         Media         ©old water         Not available.         Not available.         1.14	mm Hg 0.056 Re	kPa 0.0075 sult	Meth	od	mm Hg		Method

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## Section 9. Physical and chemical properties

Q.	Decomposition temperature	: Not available.
Þ	Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
к.	Flow time (ISO 2431)	: Not available.
S.	Molecular weight	: Not applicable.

# Section 10. Stability and reactivity

		-	
Α.	Chemical stability	1	The product is stable.
	Possibility of hazardous reactions	:	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 metal oxide/oxides

# Section 11. Toxicological information

Α.	Information on the likely	: Not available.
	routes of exposure	

### Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: Corrosive to the digestive tract. Causes burns.

- : Corrosive to the digestive tract. Causes burns.
- : Causes severe burns. May cause an allergic skin reaction. Skin contact
- : Causes serious eye damage. Eye contact

### **Over-exposure signs/symptoms**

Inhalation	<ul> <li>Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>	
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	<ul> <li>Adverse symptoms may include the following: pain or irritation redness</li> <li>blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>	

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### Section 11. Toxicological information

Eye contact

: 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	-
melamine	LC50 Inhalation Dusts and	Rat	>5190 mg/m <sup>3</sup>	4 hours
	mists		_	
	LD50 Oral	Rat	3161 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
-	LD50 Oral	Rat	1716 mg/kg	-

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

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#### 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	-	-	- Z dava	
2,4,6-tris(dimethylaminomethyl) phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days	
Conclusion/Summary	Conclusion/Summary					
Skin : T	here are no data available	on the mixture	itself.			
Eyes : T	here 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
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitizing
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitizing

#### **Conclusion/Summary**

- Skin
- : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

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### Section 11. Toxicological information

#### **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)

Not available.

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

Name		Route of exposure	Target organs
melamine	Category 2	-	urinary system

#### **Aspiration hazard**

Not available.

#### Potential chronic health effects

General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity Mutagenicity Reproductive toxicity	<ul> <li>May cause cancer. Risk of cancer depends on duration and level of exposure.</li> <li>No known significant effects or critical hazards.</li> <li>Suspected of damaging fertility or the unborn child.</li> </ul>

#### **Additional information**

Causes digestive tract burns. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death.

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
		SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A
melamine	CAS: 108-78-1	AQUATIC HAZARD (LONG-TERM) - Category 2 CARCINOGENICITY - Category 2
		TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 2
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## Section 11. Toxicological information

4,4'-Isopropylidenediphenol, ethoxylated	CAS: 32492-61-8 (EO> 4.5 moles)	AQUATIC HAZARD (LONG-TERM) - Category 3
2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1
3,6-diazaoctanethylenediamin	CAS: 112-24-3	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 3
glass, oxide, chemicals crystalline silica, respirable powder (>10 microns)	CAS: 65997-17-3 CAS: 14808-60-7	Not classified. CARCINOGENICITY - Category 1A

# Section 12. Ecological information

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine melamine 2,4,6-tris (dimethylaminomethyl) phenol	EC10 1.78 mg/l Acute EC50 200 mg/l Acute LC50 175 mg/l	Algae Daphnia Fish	72 hours 48 hours 96 hours

#### B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
melamine	-1.22	3.8	Low
2,4,6-tris (dimethylaminomethyl)	0.219	-	Low
phenol 3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low

#### D. Mobility in soil

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### Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

E. <u>Other adverse effects</u> : 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. 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 UN3066		UN3066	UN3066	
B. UN proper PAINT shipping name		PAINT	PAINT	
C. Transport hazard class(es)8D. Packing groupIII		8	8	
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**

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 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.

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### Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

Α.	Regulation according to I	<u>SHA</u>
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.

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

The following components have an OEL: glass, oxide, chemicals crystalline silica, respirable powder (>10 microns)

	- 1-	
ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.
ISHA Enforcement Regs Annex 21 (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.
Regulation according to Chemicals Control Act		
Article 11 (TRI)	:	None of the components are listed.

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.

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### Section 15. Regulatory information

	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	:	Not applicable.
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	. 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>
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**Indicates information that has changed from previously issued version.** 

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