# SAFETY DATA SHEET



Date of issue 4/26/2024 (month/day/year)

Version 2

# Section 1. Chemical product and company identification

A. Product name<br/>Product code: SIGMASHIELD 1090 HARDENER 0.4G<br/>: 00445107

#### 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:	: <mark>⊮</mark> 82-52-210-8331

# Section 2. Hazards identification

A. Hazard classification	: CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 3

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
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Hazard statements	<ul> <li>H290 - May be corrosive to metals. H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (respiratory tract) H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
<b>Precautionary statements</b>	
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> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <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 CENTER or doctor.</li> <li>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	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do	: None known.

not result in classification

# Section 3. Composition/information on ingredients

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

**CAS number** 

: Not applicable.

Chemical name	Common name	Identifiers	%
aminomethyl- 3,5,5-trimethylcyclohexylamine	Isophorone diamine	CAS: 2855-13-2	30 - <40
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-	POLYOXY PROPYLENE DIAMINE	CAS: 9046-10-0 (n = 2-6)	30 - <40
(2-aminomethylethoxy)- 2-piperazin-1-ylethylamine 2,2'-iminodiethylamine	2-PIPERAZIN-1-YLETHYLAMINE DIETHYLENETRIAMINE	CAS: 140-31-8 CAS: 111-40-0	5 - <10 0.1 - <1

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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 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.
Ε.	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. Fire-fighting measures

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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.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides
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 harmful 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.
	Unsuitable extinguishing media	:	None known.
	Suitable extinguishing media	1	Use an extinguishing agent suitable for the surrounding fire.
Α.	Extinguishing media		

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### Section 5. Fire-fighting measures

**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.
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**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.

#### 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

<ul> <li>A. Precautions for safe handling</li> <li>Put on appropriate personal protective equipment (see Section 8). Pers history of skin sensitization problems should not be employed in any prowhich this product is used. Avoid exposure - obtain special instructions Avoid exposure during pregnancy. Do not handle until all safety precaut been read and understood. Do not get in eyes or on skin or clothing. Do breathe vapor or mist. Do not ingest. Avoid release to the environment. normal use the material presents a respiratory hazard, use only with ade ventilation or wear appropriate respirator. Keep in the original container approved alternative made from a compatible material, kept tightly close in use. Empty containers retain product residue and can be hazardous. reuse container. Absorb spillage to prevent material damage.</li> </ul>	before use. ions have o not If during equate or an d when not
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B. Conditions for safe storage, including any incompatibilities
 Store between the following temperatures: 5 to 35°C (41 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

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# Section 7. Handling and storage

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
	2,2'-iminodiethylamine			Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. TWA: 1 ppm 8 hours.
	Recommended monitoring procedures	:	Reference should be made to appropriational guidance documents for methors substances will also be required.	ate monitoring standards. Reference to ods for the determination of hazardous
В.	Appropriate engineering controls	:		s, gas, vapor or mist, use process enclosures, eering controls to keep worker exposure to nmended or statutory limits.
	Environmental exposure controls	:		
С.	Personal protective equip	m	ent	
	Respiratory protection	:	hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use	a 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	butyl rubber	
	Body protection	:		body should be selected based on the task and should be approved by a specialist
	Hygiene measures	:	eating, smoking and using the lavatory Appropriate techniques should be used 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

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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.

A. Appearance	
Physical state	: Liquid.
Color	: Colorless.
B. Odor	: Characteristic.
C. Odor threshold	: Not available.
D. pH	: Not available.
E. Melting/freezing point	: Not available.
F. Boiling point/boiling range	: >37.78°C (>100°F)
G. Flash point	: Closed cup: 234°C (453.2°F)
H. Evaporation rate	: Not available.
I. Flammability (solid, gas)	: Not available.
J. Lower and upper	: Greatest known range: Lower: 1.1% Upper: 9.4% (2-piperazin-1-ylethylamine)

# explosive (flammable) limits

K. Vapor pressure

ł		Vapo	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
	water	17.5	2.3					
ļ	Media	Re	sult	<u></u>			I	
ľ	old water	Pa	rtially so	oluble				
;	Not available.							
÷	Not available.							
÷	0.95							
	Not applicable.							

- L. Solubility(ies)
  - Solubility in water
  - Vapor density
- Μ. **Relative density** Ν.
- **Partition coefficient:** 0.
- octanol/water **Auto-ignition**
- Ρ. temperature

Ingredient name	°C	°F	Method
piperazin-1-ylethylamine	>300	>572	

- **Decomposition** Q. temperature
- : Not available.
- Viscosity R.
  - Flow time (ISO 2431)
- Molecular weight S.
- : Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)
- : Not available.
- : Not applicable.

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# Section 10. Stability and reactivity

A. Chemical stability Possibility of hazardous reactions	<ul> <li>The product is stable.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> </ul>
B. Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
C. Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D. Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides

# Section 11. Toxicological information

Α.	Information on the like routes of exposure		: Not available.
P	otential acute health eff	<u>ts</u>	
	Inhalation :		own significant effects or critical hazards.
Ingestion		Harm	ful if swallowed.
	Skin contact	Cause	es severe burns. May cause an allergic skin reaction.
	Eye contact	Cause	es serious eye damage.
<u>0</u>	ver-exposure signs/syn	<u>toms</u>	
	Inhalation	reduc increa	se symptoms may include the following: ed fetal weight se in fetal deaths al malformations
	Ingestion	stoma reduce increa	se symptoms may include the following: ich pains ed fetal weight ise in fetal deaths al malformations
	Skin contact	pain c redne blister reduce increa	se symptoms may include the following: r irritation ss ing may occur ed fetal weight ise in fetal deaths al malformations
	Eye contact	Adver pain wateri redne	•
в.	Health hazards		

Acute toxicity

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# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure	
<b>β</b> -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	-	
Poly[oxy(methyl-1,2-ethanediyl)], α-	LD50 Dermal	Rat	2980 mg/kg	-	
(2-aminomethylethyl)-ω-					
(2-aminomethylethoxy)-					
	LD50 Oral	Rat	2885 mg/kg	-	
2-piperazin-1-ylethylamine	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours	
	mists				
	LD50 Dermal	Rabbit	866 mg/kg	-	
	LD50 Oral	Rat	2140 mg/kg	-	
2,2'-iminodiethylamine	LC50 Inhalation Dusts and	Rat	0.07 to 0.3 mg/l	4 hours	
-	mists				
	LD50 Dermal	Rabbit	1090 mg/kg	-	
	LD50 Oral	Rat	1080 mg/kg	-	

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

#### Irritation/Corrosion

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result	
Aminomethyl- 3,5,5-trimethylcyclohexylamine		Guinea pig	Sensitizing	
2-piperazin-1-ylethylamine	skin	Guinea pig	Sensitizing	
Conclusion/Summary				
Skin :	There are no data a	available on the mixture itself.		
Respiratory :	There are no data a	available on the mixture itself.		
Carcinogenicity		available on the mixture itself. 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.		
<u>Specific target organ toxicity (single exposure)</u>				

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# Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
2,2'-iminodiethylamine	Category 3		Respiratory tract irritation

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

Name	Classification	Route of exposure	Target organs
2-piperazin-1-ylethylamine	Category 1	inhalation	respiratory tract

#### **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	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: Suspected of damaging fertility or the unborn child.

#### **Additional information**

None known.

Chemical name	Identifiers	GHS Classification
♂-aminomethyl- 3,5,5-trimethylcyclohexylamine	CAS: 2855-13-2	CORROSIVE TO METALS - Category 1
-,-,-		ACUTE TOXICITY (oral) - Category 4
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1A
Poly[oxy(methyl-1,2-ethanediyl)], α-	CAS: 9046-10-0 (n =	CORROSIVE TO METALS - Category 1
(2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	2-6)	
		SKIN CORROSION - Category 1C
		SERIOUS EYE DAMAGE - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
2-piperazin-1-ylethylamine	CAS: 140-31-8	FLAMMABLE LIQUIDS - Category 4
		CORROSIVE TO METALS - Category 1
		ACUTE TOXICITY (dermal) - Category 3
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B
		TOXIC TO REPRODUCTION - Category 18
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
2,2'-iminodiethylamine	CAS: 111-40-0	CORROSIVE TO METALS - Category 1
		ACUTE TOXICITY (oral) - Category 4
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# Section 11. Toxicological information

	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE			
	EXPOSURE) (Respiratory tract irritation) - Category 3			

# Section 12. Ecological information

#### A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
<ul> <li>Poly[oxy(methyl-</li> <li>1,2-ethanediyl)], α-</li> <li>(2-aminomethylethyl)-ω-</li> <li>(2-aminomethylethoxy)-</li> </ul>	EC50 15 mg/l	Algae	72 hours
2-piperazin-1-ylethylamine 2,2'-iminodiethylamine	Acute EC50 58 mg/l Acute LC50 430 mg/l	Daphnia Fish	48 hours 96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Piperazin-1-ylethylamine 2,2'-iminodiethylamine	OECD 301F -		readily - 28 days adily - 21 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)- 2-piperazin-1-ylethylamine 2,2'-iminodiethylamine	- -		-		Not rea Not rea Readily	dily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
aminomethyl- 3,5,5-trimethylcyclohexylamine	0.99	-	Low
2-piperazin-1-ylethylamine 2,2'-iminodiethylamine	-1.48 -5.58	- 4.47	Low Low

#### D. Mobility in soil

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

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

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### Section 13. Disposal considerations

Α.	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.
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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 shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	8	8	8
D. Packing group	II	II	II
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

UN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

# 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

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# Section 15. Regulatory information

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Α.	A. <u>Regulation according to ISHA</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 Chem	ica	al Substances and Physical Factors	
	The following components 2,2'-iminodiethylamine	s 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 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)	:	None of the components are listed.	
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	None of the components are listed.	
В.	B. Regulation according to Chemicals Control Act			
	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	:	All components are listed or exempted.	
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.	
			Koroa (CHS)	

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# Section 15. Regulatory information

C. Dangerous Materials	: Class: Class 4 - Flammable Liquid
Safety Management Act	Item: 6. Class 4 petroleums
	Threshold: 6000 L
	Danger category: III
	Signal word: Contact with sources of ignition prohibited
D. <u>Wastes regulation</u>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
E. Regulation according to	other foreign laws
Safety, health and environmental regulations specific for	: No known specific national and/or regional regulations applicable to this product (including its ingredients).

# the product Section 16. Other information

Α.	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.	Date of issue/Date of revision	:	4/26/2024
С.	Version	:	2
	Prepared by	:	EHS

#### D. 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.