## **SAFETY DATA SHEET**



Date of issue 4/20/2025 (month/day/year)

Version 1

## Section 1. Chemical product and company identification

A. Product name : SIGMASHIELD 950 BASE CREAM

**Product code** : 000010025260

Other means of identification

00482078

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

**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:

: +82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification : SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B 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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**Product name SIGMASHIELD 950 BASE CREAM** 

#### Section 2. Hazards identification

Hazard statements : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

H411 - Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

Prevention : P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

**Response** : P391 - Collect spillage.

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

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

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

P321 - Specific treatment (see the label).

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

C. Other hazards which do

not result in classification

: None known.

## Section 3. Composition/information on ingredients

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

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
2,2"-[(1-methylethylidene)bis	Bisphenol A diglycidyl ether	CAS: 1675-54-3	20 -
(4,1-phenyleneoxymethylene)]bisoxirane			<30
		EC: 216-823-5	
1,6-Hexanediol, reaction products with	1,6-Hexanediol, reaction products with	CAS: 933999-84-9	10 -<20
epichlorohydrin	epichlorohydrin		
		EC: 618-939-5	
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
		EC: 236-675-5	
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	5 - <10
		EC: 270-966-8	
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
		EC: 238-877-9	
Benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5
		EC: 202-859-9	
[3-(2,3-epoxypropoxy)propyl]	[3-(2,3-epoxypropoxy)propyl]	CAS: 2530-83-8	1 - <5
trimethoxysilane	trimethoxysilane		
		EC: 219-784-2	
FELDSPAR	FELDSPAR	CAS: 68476-25-5	0.1 - <1

Product code 000010025260
Product name SIGMASHIELD 950 BASE CREAM

Section 3. Composition/information on ingredients

CASTOR OIL, HYDROGENATED

CASTOR OIL, HYDROGENATED

CASTOR OIL, HYDROGENATED

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EC: 270-666-7

CAS: 8001-78-3

EC: 232-292-2

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

A. Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the
	eyelids apart for at least 10 minutes and seek immediate medical advice.

B. Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and
	water or use recognized skin cleanser. Do NOT use solvents or thinners.

C. Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is
	irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by
	trained personnel.

D. Ingestion : If swallowed, seek medical advice immediately and show this container or label.

E. Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : 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.

Keep person warm and at rest. Do NOT induce vomiting.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### A. Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

B. 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

halogenated compounds metal oxide/oxides

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## Section 5. Fire-fighting measures

C. Special equipment for fire-fighting

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- : 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **B. Environmental** precautions
- : Avoid dispersal of spilled material and runoff and contact with soil, waterways. drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
- C. Methods and materials for containment and cleaning up

**Small spill** 

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

Large spill

: Stop leak if without risk. Move containers from spill area. 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
- 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 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 ingest. Avoid breathing vapor or mist. 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.

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## Section 7. Handling and storage

B. Conditions for safe storage, including any incompatibilities

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: 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 locked up. 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
titanium dioxide	ISHA Article 42 (Republic of Korea, 1/2020)
Talc , not containing asbestiform fibres	TWA 8 hours: 10 mg/m³.  ACGIH TLV (United States, 1/2024)  TWA 8 hours: 2 mg/m³. Form: Respirable fraction.

Recommended monitoring procedures

- Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- controls
- B. Appropriate engineering: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental** exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- C. Personal protective equipment

**Respiratory protection** 

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Eye protection **Hand protection** 

- Chemical splash goggles.
- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Gloves** 

: butyl rubber

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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## Section 8. Exposure controls/personal protection

**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.

A. Appearance

**Physical state** : Liquid.

Color : Not available. B. Odor Characteristic. : Not available. C. Odor threshold D. pH : Not applicable. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point : Closed cup: Not applicable.

: Not available. H. Evaporation rate Flammability (solid, gas) : Not available. J. Lower and upper : Not available.

explosive (flammable)

limits

K. Vapor pressure

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
benzyl alcohol	0.05	0.0067				

Media **Result** L. Solubility(ies)

> Not soluble cold water

Solubility in water Not available. Vapor density Not available.

**Relative density** : 1.53

Partition coefficient: n-

octanol/water

**Auto-ignition** 

: Not applicable.

temperature

Ingredient name	°C	°F	Method
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	400	752	DIN 51794

**Decomposition** temperature

: Not available.

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## Section 9. Physical and chemical properties

Viscosity : Dynamic (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.

Molecular weight : Not applicable.

## Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

Possibility of hazardous reactions

s : Under normal conditions of storage and use, hazardous reactions will not occur.

B. Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

**C.** Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

D. Hazardous : Depending on conditions, decomposition products may include the following

decomposition products materials: carbon oxides halogenated compounds metal oxide/oxides

## **Section 11. Toxicological information**

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

Potential acute health effects

Inhalation : No known significant effects or critical hazards.Ingestion : No known significant effects or critical hazards.

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

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

Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

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

pain or irritation

watering redness

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## Section 11. Toxicological information

#### **B.** Health hazards

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
1,6-Hexanediol, reaction products with epichlorohydrin	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	2189 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>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	_
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and	Rat	>5.3 mg/l	4 hours
trimethoxysilane	mists			
	LD50 Oral	Rat	7.01 g/kg	-
CASTOR OIL, HYDROGENATED	LD50 Oral	Rat	>10 g/kg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

**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
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane		Mouse	Sensitizing

#### **Conclusion/Summary**

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## **Section 11. Toxicological information**

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.

**Teratogenicity** 

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

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

Name	Classification	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3		Respiratory tract irritation

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

Name	Classification	Route of exposure	Target organs
FELDSPAR	Category 2	-	-

#### **Aspiration hazard**

Not available.

#### Potential chronic health effects

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

**Carcinogenicity**: May cause 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**

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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness.

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## Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
2,2"-[(1-methylethylidene)bis	CAS: 1675-54-3	SKIN IRRITATION - Category 2
(4,1-phenyleneoxymethylene)]bisoxirane		
	EC: 216-823-5	EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
1,6-Hexanediol, reaction products with	CAS: 933999-84-9	SKIN IRRITATION - Category 2
epichlorohydrin		
	EC: 618-939-5	EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
		TOXIC TO REPRODUCTION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 3
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
	EC: 236-675-5	
Phenol, methylstyrenated	CAS: 68512-30-1	SKIN IRRITATION - Category 2
	EC: 270-966-8	SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 3
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
	EC: 238-877-9	
Benzyl alcohol	CAS: 100-51-6	ACUTE TOXICITY (oral) - Category 4
	EC: 202-859-9	ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 3
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
		TOXIC TO REPRODUCTION - Category 2
[3-(2,3-epoxypropoxy)propyl]	CAS: 2530-83-8	SERIOUS EYE DAMAGE - Category 1
trimethoxysilane		
	EC: 219-784-2	AQUATIC HAZARD (LONG-TERM) - Category 3
FELDSPAR	CAS: 68476-25-5	CARCINOGENICITY - Category 1A
	EC: 270-666-7	SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 2
CASTOR OIL, HYDROGENATED	CAS: 8001-78-3	AQUATIC HAZARD (ACUTE) - Category 1
	EC: 232-292-2	

# Section 12. Ecological information

### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
1,6-Hexanediol, reaction products with epichlorohydrin	NOEC 15 mg/l	Daphnia	21 days
, ,	Acute EC50 47 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 30 mg/l Fresh water	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	Acute EC50 255 mg/l Fresh water	Algae	72 hours
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours

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Section 12. Ecological information				
CASTOR OIL, HYDROGENATED	Acute LC50 >100 mg/l	Fish	96 hours	

#### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1,6-Hexanediol, reaction products with epichlorohydrin	OECD Ready Biodegradability - Closed Bottle Test	47 % - Not readily - 28 days	-	-
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	-	37 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane		-	Not readily
1,6-Hexanediol, reaction products with epichlorohydrin	-	-	Not readily
Benzyl alcohol [3-(2,3-epoxypropoxy) propyl]trimethoxysilane	-		Readily Not readily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,6-Hexanediol, reaction products with epichlorohydrin	0.822	-	Low
Phenol, methylstyrenated	3.627	-	Low
Benzyl alcohol	0.87	-	Low
CASTOR OIL, HYDROGENATED	18.75	-	High

#### D. Mobility in soil

Soil/Water partition coefficient

: Not available.

E. Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### A. Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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## **Section 13. Disposal considerations**

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	IATA
A. UN number	UN3082	UN3082	UN3082
B. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)
C. Transport hazard class(es)	9	9	9
D. Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
E. Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

#### **Additional information**

UN

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

## 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

#### A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture) : None of the components are listed.

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## Section 15. Regulatory information

**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:

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

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

**ISHA Enforcement Regs** 

Annex 11-5 (Harmful factors subject to Work

**Environment Measurement)**  : The following components are listed: mica, titanium dioxide, talc / soapstone

Annex 22 (Harmful **Factors Subject to Special Health Check-**

up)

Standard of Industrial **Safety and Health Annex 12 (Hazardous** 

substances subject to control)

ISHA Enforcement Regs : The following components are listed: Glass fiber dusts, mica

: The following components are listed: mica, titanium dioxide

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

Article 11 (TRI) Article 18 Prohibited (K-

: None of the components are listed. : 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)

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. : None of the components are listed.

**Article 39 (Accident Precaution Chemicals**)

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.

#### E. Regulation according to other foreign laws

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**Product name SIGMASHIELD 950 BASE CREAM** 

## Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

### Section 16. Other information

A. References : Korean Ministry of Environment; Chemical Control Act

Korean Ministry of Labor; Industrial Safety and Health Act

**NIER Notice** 

Registry of Toxic Effects of Chemical Substances (RTECS)

U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information

Retrieval) ECOTOX Database System.

**B. First issue date** : 4/20/2025 **C. Date of issue/Date of** : 4/20/2025

revision

D. Version : 1
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.

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