SAFETY DATA SHEET



Date of issue 8/13/2024 (month/day/year)

Version 3.04

Section 1. Chemical product and company identification

A. Product name	: SIGMAWELD 165 PASTE LIGHT GREY(SS)
Product code	: 00397462

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:	: +82-52-210-8331

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1
This product is classified in	accordance with the Industrial Safety and Health Act and the Chemical Control Act

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
Hazard statements	 H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

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Section 2. Hazards identification

	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. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment.
	Response	:	 P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
	Storage	:	P403 + P235 - Store in a well-ventilated place. Keep cool.
	Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
•	Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

С

: Not applicable.

Chemical name	Common name	Identifiers	%
Zinc powder - zinc dust (stabilized)	ZINC	CAS: 7440-66-6	40 - <50
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	10 -<20
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	5 - <10
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 107-98-2	5 - <10
Isopropyl alcohol	ISOPROPYL ALCOHOL	CAS: 67-63-0	5 - <10
Toluene	TOLUENE	CAS: 108-88-3	1 - <5
zinc oxide	ZINC OXIDE	CAS: 1314-13-2	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5

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

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

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Castian A		
Section 4	. First ald	measures

Α.	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.
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	;	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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

	0		0
Α.	Extinguishing media		
	Suitable extinguishing media	1	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides metal oxide/oxides
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Fire-fighting procedures	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	•	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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	co	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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

Α.	Precautions for safe handling	:	Put on appropriate personal protective equipment (sobtain special instructions before use. Avoid exposs handle until all safety precautions have been read a eyes or on skin or clothing. Do not ingest. Avoid bring release to the environment. Use only with adequate respirator when ventilation is inadequate. Do not er spaces unless adequately ventilated. Keep in the oral alternative made from a compatible material, kept to Store and use away from heat, sparks, open flame of explosion-proof electrical (ventilating, lighting and muse only non-sparking tools. Take precautionary midischarges. Empty containers retain product residure reuse container.	ure during pregnanc ind understood. Do ne eathing vapor or mise e ventilation. Wear a nter storage areas ar riginal container or a ghtly closed when no or any other ignition naterial handling) equi easures against elect	ey. Do not not get in st. Avoid appropriate nd confined an approved ot in use. source. Use uipment. ctrostatic
В.	Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C accordance with local regulations. Store in a segreg in original container protected from direct sunlight in area, away from incompatible materials (see Sectio locked up. Eliminate all ignition sources. Separate container tightly closed and sealed until ready for us opened must be carefully resealed and kept upright store in unlabeled containers. Use appropriate container contamination. See Section 10 for incompatible materials	gated and approved a dry, cool and well n 10) and food and c from oxidizing mate se. Containers that h to prevent leakage. tainment to avoid en	area. Store I-ventilated drink. Store rials. Keep nave been Do not vironmental
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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits		
ethanol	Ministry of Employment and Labor (Republic of Korea, 1/2020).		
	TWA: 1000 ppm 8 hours.		
crystalline silica, respirable powder (<10 microns) Ministry of Employment and Labor		
	(Republic of Korea, 1/2020).		
	TWA: 0.05 mg/m ³ 8 hours. Form:		
	Respirable fraction		
1-methoxy-2-propanol	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020).		
	STEL: 150 ppm 15 minutes.		
	TWA: 100 ppm 8 hours.		
Isopropyl alcohol	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020).		
	STEL: 400 ppm 15 minutes.		
	TWA: 200 ppm 8 hours.		
Toluene	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020).		
	STEL: 150 ppm 15 minutes.		
- to	TWA: 50 ppm 8 hours.		
zinc oxide	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020).		
	TWA: 2 mg/m ³ 8 hours. Form: Respirable		
	dust STEL: 10 mg/m³ 15 minutes.		
	TWA: 5 mg/m ³ 8 hours.		
titanium dioxide	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020).		
	TWA: 10 mg/m ³ 8 hours. Form: total dust		
	with less than 1% of free SiO2		
	ence should be made to appropriate monitoring standards. Reference to		
	al guidance documents for methods for the determination of hazardous		
Substa	inces will also be required.		
	nly with adequate ventilation. Use process enclosures, local exhaust		
	tion or other engineering controls to keep worker exposure to airborne		
	ninants below any recommended or statutory limits. The engineering control		
	eed to keep gas, vapor or dust concentrations below any lower explosive		
	Use explosion-proof ventilation equipment.		
	ions from ventilation or work process equipment should be checked to ensur		
exposure controls they comply with the requirements of environmental protection legislation. In s			
	fume scrubbers, filters or engineering modifications to the process		

equipment will be necessary to reduce emissions to acceptable levels.

C. Personal protective equipment

Β.

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Section 8. Exposure controls/personal protection

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. Chemical splash goggles.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: butyl rubber, nitrile 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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	1	Not available.
В.	Odor	1	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	:	Closed cup: 13°C (55.4°F)
H.	Evaporation rate	:	Not available.
Ι.	Flammability (solid, gas)	:	Not available.
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 3.3% Upper: 19% (ethanol)
K.	Vapor pressure	:	

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Section 9. Physical and chemical properties

			Vapo	r Pressu	re at 20°C	Va	oor press	ure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		ethanol	42.94865	5.7				
Solubility(ies)	:	Media	Re	sult		•		
		cold water	No	t soluble				
Solubility in water	:	Not available.						
Vapor density	:	Not available.						
Relative density	:	1.99						
Partition coefficient: n- octanol/water	:	Not applicable.						
Partition coefficient: n-	:	Not applicable.						
Partition coefficient: n- octanol/water Auto-ignition		Not applicable.		°C	°F		Method	
Partition coefficient: n- octanol/water Auto-ignition				° C 270	° F 518	I	Method	
Partition coefficient: n- octanol/water Auto-ignition	:	Ingredient name				I	Method	
 Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity 	:	Ingredient name 1-methoxy-2-propanol	4°F)): >21	270	518	I	Method	
 Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature 	:	Ingredient name 1-methoxy-2-propanol Not available.	4°F)): >21	270	518	I	Method	

Section 10. Stability and reactivity

Α.	Chemical stability	:	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 metal oxide/oxides

Section 11. Toxicological information

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

Potential acute health effects

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Skin contact	: Defatting to the skin. May cause skin dryness and irritation.	
Ingestion	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	

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Section 11. Toxicological information

Eye o	contact
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: 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 dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Zinc powder - zinc dust (stabilized)	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
	mists		_	
	LD50 Oral	Rat	>2000 mg/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists		_	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists		-	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

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

Irritation/Corrosion

Conclusion/Summary

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Section 11. Toxicological information

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.
<u>Sensitization</u>	
Conclusion/Summary	
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.
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Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Conclusion/Summary	
Poproductivo toxicity	
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
1-methoxy-2-propanol	Category 3	-	Narcotic effects
Isopropyl alcohol	Category 3		Narcotic effects
Toluene	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

Potential chronic health effects

General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

Additional information

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Section 11. Toxicological information

Prolonged or repeated contact may dry skin and cause irritation. 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. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
Zinc powder - zinc dust (stabilized)	CAS: 7440-66-6	SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
1-methoxy-2-propanol	CAS: 107-98-2	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Isopropyl alcohol	CAS: 67-63-0	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2
Toluene	CAS: 108-88-3	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
zinc oxide	CAS: 1314-13-2	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2

Section 12. Ecological information

A. <u>Ecotoxicity</u>

esh water Algae - <i>Pseudokirchneriella</i> subcapitata	72 hours
h water Daphnia - Daphnia magna	48 hours
Daphnia - <i>Daphnia magna</i> - Neonate	21 days
sh water Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	30 days
esh water Daphnia - Daphnia magna	48 hours
	48 hours
	96 hours
resh water Daphnia - Daphnia magna	48 hours
Algae	72 hours
	 Daphnia - Daphnia magna - Neonate Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) Daphnia - Daphnia magna Daphnia Fish resh water Daphnia - Daphnia magna

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Section 12. Ecological information

0	Daphnia - <i>Daphnia magna -</i> Neonate	48 hours
Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily
Toluene	-	-	Readily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	-	Low
1-methoxy-2-propanol	<1	-	Low
Isopropyl alcohol	0.05	-	Low
Toluene	2.73	8.32	Low

D. Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

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.
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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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport information

	UN	IMDG	ΙΑΤΑ	
A. UN number	UN1263	UN1263	UN1263	
3. UN proper PAINT shipping name		PAINT	PAINT	
C. Transport hazard class(es)	3	3	3	
D. Packing group II		I	II	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
E. Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized))	Not applicable.	

Additional information

ΙΑΤΑ

UN	: None identified.	
IMDG	: The marine poll	

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

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

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

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

19.

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Section 15. Regulatory information

_			
	ethanol crystalline silica, respirable 1-methoxy-2-propanol Isopropyl alcohol Toluene zinc oxide titanium dioxide	e p	owder (<10 microns)
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	The following components are listed: toluene
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: quartz, isopropyl alcohol, toluene, zinc oxide, titanium dioxide
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Isopropyl alcohol, Toluene, Zinc oxide
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: zinc and its compounds, isopropyl alcohol, toluene, zinc and its compounds, titanium dioxide
В.	Regulation according to (Ch	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Zinc and its compounds, 2-Propanol, Toluene, Zinc and its compounds
	Article 18 Prohibited (K- Reach Article 27)	1	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	1	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	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: 2. Class 1 petroleums - Water-insoluble liquid Threshold: 200 L Danger category: II Signal word: Contact with sources of ignition prohibited
			Dispose of contents and container in accordance with all local, regional, national

Product name SIGMAWELD 165 PASTE LIGHT GREY(SS)

Section 15. Regulatory information

E. <u>Regulation according to other foreign laws</u>

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

Section 16. Other information

A.	References	:	Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.
В.	First issue date	:	3/6/2018
C.	Date of issue/Date of revision	:	8/13/2024
D.	Version	:	3.04
	Prepared by	:	EHS
Ε.	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.