SAFETY DATA SHEET



Date of issue 10/22/2024 (month/day/year)

Version 5

Section 1. Chemical product and company identification

A. Product name	: PPG NEXEON 810 BROWN
Product code	: 00468776

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

Ū,	Product use Jse of the substance/ nixture		Professional applications, Used by spraying. Coating.
	Jses advised against	:	Product is not intended, labelled or packaged for consumer use.
i	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. Ha	azard classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - 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
		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



Signal word

Symbol

: Danger

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Product name PPG NEXEON 810 BROWN

Section 2. Hazards identification

	Hazard statements	:	 F226 - Flammable liquid and vapor. H302 - Harmful if swallowed. H318 - Causes serious eye damage. H331 - Toxic if inhaled. H351 - Suspected of causing cancer. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.
	Precautionary statements	5	
	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. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P240 - Ground and bond container and receiving equipment. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
	Response	:	 ▶391 - Collect spillage. P370 + P378 - In case of fire: Never use water to extinguish. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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. P321 - Specific treatment (see the label).
	Storage	1	₱403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
	Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
5.	Other hazards which do not result in	:	Prolonged or repeated contact may dry skin and cause irritation.

classification

С

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

Product name PPG NEXEON 810 BROWN

Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4 EC: 202-849-4	10 -<20
Xylene	XYLENES	CAS: 1330-20-7 EC: 215-535-7	5 - <10
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 107-98-2	5 - <10
-1		EC: 203-539-1	5
zinc pyrithione	pyrithione zinc	CAS: 13463-41-7 EC: 236-671-3	5 - <10
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6 EC: 238-877-9	5 - <10
diiron trioxide	Diiron trioxide	CAS: 1309-37-1 EC: 215-168-2	1 - <5
4-Bromo-2-(4-chlorophenyl)-5- (trifluoromethyl)-1H-pyrrole-3-carbonitrile	1H-pyrrole-3-carbonitrile,4-bromo-2- (4-chlorophenyl)-5-(trifluoromethyl)-	CAS: 122454-29-9	1 - <5
carbon black	ČARBON BLÁĆK	CAS: 1333-86-4 EC: 215-609-9	0.1 - <1
5-[1-(2,3-Dimethylphenyl)ethyl]-1H- imidazole	4-[1-(2,3-Dimethylphenyl)ethyl]-1H- imidazole	CAS: 86347-14-0	<0.1

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. In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
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	:	No specific treatment.

Section 4. First aid measures

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

A .	Extinguishing media		
	Suitable extinguishing media	:	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	:	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 nitrogen oxides sulfur oxides halogenated compounds 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.

Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	uate surrounding areas. ng. Do not touch or wall ires, smoking or flames i	ving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from through spilled material. Shut off all ignition sources. n hazard area. Do not breathe vapor or mist. Provide opropriate respirator when ventilation is inadequate. rotective equipment.
B. Environmental precautions	and sewers. Inform the onmental pollution (sewe	erial and runoff and contact with soil, waterways, e relevant authorities if the product has caused rs, waterways, soil or air). Water polluting material. ment if released in large quantities. Collect spillage.

C. Methods and materials for containment and cleaning up

Section 6. Accidental release measures

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 (see Section 8). 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
В.	Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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** ISHA Article 42 (Republic of Korea, 1/2020) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. **Xylene** ISHA Article 42 (Republic of Korea, 1/2020) [Xylene] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. ISHA Article 42 (Republic of Korea, 1-methoxy-2-propanol Korea (GHS) Page: 5/15

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	ction 8. Exposu	•	
			1/2020) STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.
	Talc , not containing asbe	stiform fibres	ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 2 mg/m ³ (as asbestos).
	diiron trioxide		Form: fibers. ISHA Article 42 (Republic of Korea, 1/2020) [Iron oxide]
	carbon black		TWA 8 hours: 5 mg/m ³ (as Fe). Form: Fume. TWA 8 hours: 5 mg/m ³ (as Fe). ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 3.5 mg/m ³ . Form: inhalable fraction.
	Recommended monitoring procedures		opropriate monitoring standards. Reference to r methods for the determination of hazardous
	Appropriate engineering controls	ventilation or other engineering of contaminants below any recomm	on. Use process enclosures, local exhaust controls to keep worker exposure to airborne nended or statutory limits. The engineering control dust concentrations below any lower explosive ilation equipment.
	Environmental exposure controls	they comply with the requiremen cases, fume scrubbers, filters or	rk process equipment should be checked to ensur ts of environmental protection legislation. In some engineering modifications to the process educe emissions to acceptable levels.
. 1	Personal protective equip	ment	
	Respiratory protection	hazards of the product and the workers are exposed to concen appropriate, certified respirators respirator complying with an app necessary.	sed on known or anticipated exposure levels, the safe working limits of the selected respirator. If trations above the exposure limit, they must use by Use a properly fitted, air-purifying or air-fed proved standard if a risk assessment indicates this
	Eye protection	: Chemical splash goggles and fa	
	Hand protection	be worn at all times when handl this is necessary. Considering to check during use that the gloves should be noted that the time to different for different glove man	gloves complying with an approved standard shou ing chemical products if a risk assessment indicat the parameters specified by the glove manufacture s are still retaining their protective properties. It breakthrough for any glove material may be ufacturers. In the case of mixtures, consisting of ion time of the gloves cannot be accurately
	Gloves	: For prolonged or repeated hand	lling, use the following type of gloves:
		Not recommended: nitrile rubbe Recommended: neoprene, natu (PVA), Viton®	r ıral rubber (latex), butyl rubber, polyvinyl alcohol

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Section 8. Exposure controls/personal protection

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Vapor pressure at 50°C

Method

kPa

mm

Hg

Section 8. Exposure controls/personal protection

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	1	Liquid.				
	Color	1	Not available.				
В.	Odor	1	Characteristic.				
С.	Odor threshold	:	Not available.	Not available.			
D.	рН	1	Not applicable.				
Ε.	Melting/freezing point	1	Not available.				
F.	Boiling point/boiling range	:	>37.78°C (>100°F)				
G.	Flash point	4	Closed cup: 26°C (78	3.8°F)			
н.	Evaporation rate	;	Not available.				
Ι.	Flammability (solid, gas)	:	Not available.				
J.	Lower and upper explosive (flammable) limits	:	Not available.				
Κ.	Vapor pressure	:		Vapo	r Pressu	re at 20°C	
			Ingredient name	mm Hg	kPa	Method	
			ethylbenzene	9.30076	1.2		
L.	Solubility(ies)		Media	Re	sult	•	
	oonubiiity(ics)		cold water	No	t soluble		
	Solubility in water	1	Not available.				
М.	Vapor density	1	Not available.				
N.	Relative density	4	1.45				
0.	Partition coefficient: n- octanol/water	:	Not applicable.				
Ρ.	Auto-ignition temperature	:					
			In gradient neme		•	0	

Ingredient name	°C	°F	Method	
1-methoxy-2-propanol	270	518		
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Section 9. Physical and chemical properties

Q.	Decomposition temperature	:	Not available.
R.	Viscosity	:	Øynamic (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.
S.	Molecular weight	:	Not applicable.

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 nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

Section 11. Toxicological information

Α.	Information on the likely routes of exposure	Not available.					
<u>P</u>	Potential acute health effects						
	Inhalation :	Toxic if inhaled.					
	Ingestion :	Harmful if swallowed.					
	Skin contact :	Defatting to the skin. May cause skin dryness and irritation.					
	Eye contact :	Causes serious eye damage.					
<u>0</u>	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: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations					

Section 11. Toxicological information

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

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
zinc pyrithione	LC50 Inhalation Dusts and mists	Rat	0.14 mg/l	4 hours
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	177 mg/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
4-Bromo-2-(4-chlorophenyl)-5- (trifluoromethyl)-1H-pyrrole- 3-carbonitrile	LC50 Inhalation Dusts and mists	Rat	<0.25 mg/l	4 hours
	LD50 Dermal	Rat	520 to 750 mg/kg	-
	LD50 Oral	Rat	28.7 mg/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
5-[1-(2,3-Dimethylphenyl)ethyl]-1H- imidazole	LC50 Inhalation Dusts and mists	Rat	0.14 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>31.25 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation		
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-		
zinc pyrithione	Eyes - Cornea opacity	Rabbit	4	24 hours	24 hours		
Conclusion/Summary							
Skin : There are no data available on the mixture itself.							

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Section 11. Toxicological information

	6
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitization Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u> 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)

Name	Classification	Route of exposure	Target organs
1-methoxy-2-propanol	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Xylene	Category 1		central nervous system (CNS), kidneys, liver
zinc pyrithione	Category 1	-	-

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential chronic health effects

General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: Suspected of causing 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.

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Section 11. Toxicological information

Additional 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
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
	EC: 202-849-4	ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
	EC: 215-535-7	ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
1 mathews 0 menanal	CAC: 107 00 0	(REPEATED EXPOSURE) - Category 1
1-methoxy-2-propanol	CAS: 107-98-2 EC: 203-539-1	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
	EC. 203-539-1	EXPOSURE) (Narcotic effects) - Category 3
zinc pyrithione	CAS: 13463-41-7	ACUTE TOXICITY (oral) - Category 3
	EC: 236-671-3	ACUTE TOXICITY (inhalation) - Category 2
	LO. 200-07 1-0	SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
	EC: 238-877-9	
diiron trioxide	CAS: 1309-37-1	Not classified.
	EC: 215-168-2	
4-Bromo-2-(4-chlorophenyl)-5-	CAS: 122454-29-9	ACUTE TOXICITY (oral) - Category 2
(trifluoromethyl)-1H-pyrrole-3-carbonitrile		
		ACUTE TOXICITY (dermal) - Category 3
		ACUTE TOXICITY (inhalation) - Category 3
		AQUATIC HAZARD (ACUTE) - Category 1
aarkan black	CA C. 1000 00 1	AQUATIC HAZARD (LONG-TERM) - Category 1
carbon black	CAS: 1333-86-4 EC: 215-609-9	CARCINOGENICITY - Category 2
5 [1 (2 3 Dimethylphonyl)athyl] 14	CAS: 86347-14-0	ACUTE TOXICITY (oral) - Category 2
5-[1-(2,3-Dimethylphenyl)ethyl]-1H- imidazole	UAS. 00347-14-0	ACOTE TOAIOTT (Oral) - Calegory 2
		ACUTE TOXICITY (inhalation) - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
	1	AQUATIC HAZARD (LONG-TERM) - Category 1

Product name PPG NEXEON 810 BROWN

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
2	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
zinc pyrithione	Acute EC50 5.513 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Acute LC50 0.0082 mg/l	Daphnia	48 hours
	Chronic NOEC 1.889 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Chronic NOEC 0.0027 mg/l	Daphnia	21 days
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
4-Bromo-2-(4-chlorophenyl) -5-(trifluoromethyl)-1H- pyrrole-3-carbonitrile	Acute EC50 0.012 mg/l	Algae	72 hours
15	Acute LC50 0.0015 mg/l	Daphnia	48 hours
	Acute LC50 0.0013 mg/l	Fish	96 hours
	Acute NOEC 0.00073 mg/l	Algae	72 hours
	Chronic NOEC 0.0002 mg/l	Daphnia	21 days
	Chronic NOEC 0.00017 mg/l	Fish	33 days
5-[1-(2,3-Dimethylphenyl) ethyl]-1H-imidazole	Acute EC50 0.65 mg/l	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 4.5 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 30 mg/l	Fish - Danio rerio	96 hours
	Chronic NOEC 0.001 mg/l	Fish - Cypridon variegatus	28 days

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene zinc pyrithione	-	79 % - Rea 39 % - 28 (adily - 10 days days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
ethylbenzene Xylene zinc pyrithione 5-[1-(2,3-Dimethylphenyl) ethyl]-1H-imidazole	- - -		- - 50%; < 28 day(s) -		Readily Readily Not rea Not rea	, idily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	Low
Xylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
zinc pyrithione	0.9	0.9	Low
5-[1-(2,3-Dimethylphenyl)	2.9	-	Low
ethyl]-1H-imidazole			

D. Mobility in soil

Product name PPG NEXEON 810 BROWN

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. 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.

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
A. UN number	UN1992	UN1992	UN1992
B. UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S.	FLAMMABLE LIQUID, TOXIC, N.O.S.	FLAMMABLE LIQUID, TOXIC, N.O.S.
	(ethylbenzene, pyrithione zinc)	(ethylbenzene, pyrithione zinc)	(ethylbenzene, pyrithione zinc)
C. Transport hazard class(es)	3 (6.1)	3 (6.1)	3 (6.1)
D. Packing group	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(pyrithione zinc)	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.

Section 14. Transport information

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 I	SF	<u>A</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	Il Substances and Physical Factors
	The following components	s h	ave an OEL:
	Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: ethyl benzene, xylene, talc / soapstone, iron oxide
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Ethyl benzene, Xylene, Iron oxide (dust, fume)
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: ethyl benzene, xylene, zinc and its compounds, iron and its compounds
В.	Regulation according to (<u>Ch</u>	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Barium and its compounds, Ethylbenzene, Xylene including o-,m-,p- isomer, Zinc and its compounds
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.

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Section 15. Regulatory information

L	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)	:	Toxic		
	Korea inventory	1	All components are listed or exempted.		
	Article 39 (Accident Precaution Chemicals)	:	The following components are listed: zinc pyrithione		
C.	Dangerous Materials Safety Management Act	•	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited		
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Ε.	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

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.	First issue date	11/11/2022	
С.	Date of issue/Date of revision	10/22/2024	
D.	Version	5	
	Prepared by	EHS	

- E. Other
- Indicates information that has changed from previously issued version.

<u>Disclaimer</u>

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.