# SAFETY DATA SHEET



Date of issue 2/20/2023 (month/day/year)

Version 1

### Section 1. Chemical product and company identification

A. Product name	: SIGMA NEXEON 710 N BLACK	
Product code	: 00470745	

#### 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:	:	+82-52-210-8222

## Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1
<b>T</b> [1] (	

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



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Product name SIGMA NEXEON 710 N BLACK

# Section 2. Hazards identification

F	lazard statements	:	<ul> <li>H225 - Highly flammable liquid and vapor.</li> <li>H302 + H312 - Harmful if swallowed or in contact with skin.</li> <li>H315 - Causes skin irritation.</li> <li>H318 - Causes serious eye damage.</li> <li>H331 - Toxic if inhaled.</li> <li>H351 - Suspected of causing cancer.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
P	Precautionary statements	S	
	Prevention	:	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
	Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P340, P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water.</li> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.</li> </ul>
	Storage	:	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.
n	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** 

: Not applicable.

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### Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	10 -<20
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	5 - <10
	ETHER		
zinc pyrithione	pyrithione zinc	CAS: 13463-41-7	5 - <10
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
4-Bromo-2-(4-chlorophenyl)-5-	1H-pyrrole-3-carbonitrile,4-bromo-2-	CAS: 122454-29-9	1 - <5
(trifluoromethyl)-1H-pyrrole-3-carbonitrile	(4-chlorophenyl)-5-(trifluoromethyl)-		
carbon black	CARBON BLÁCK	CAS: 1333-86-4	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.

### 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.
Е.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	4	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

	•		5
Α.	Extinguishing media		
	Suitable extinguishing media	1	Use dry chemical, CO <sub>2</sub> , 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 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

contractor.

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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
C. Methods and materials for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. 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

#### Section 6. Accidental release measures

- 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 noncombustible, 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

handling

- A. Precautions for safe 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.
- B. Conditions for safe : 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 storage, including any in original container protected from direct sunlight in a dry, cool and well-ventilated incompatibilities 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
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
1-methoxy-2-propanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Talc , not containing asbestiform fibres	Ministry of Employment and Labor
-	(Republic of Korea, 1/2020).
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# Section 8. Exposure controls/personal protection

	carbon black	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers <b>Ministry of Employment and Labor</b> <b>(Republic of Korea, 1/2020).</b> TWA: 3.5 mg/m <sup>3</sup> 8 hours. Form: inhalab fraction	ble
	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.	
В.	Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering contails need to keep gas, vapor or dust concentrations below any lower explosive mits. Use explosion-proof ventilation equipment.	trols
	Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensible comply with the requirements of environmental protection legislation. In sor cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
C.	Personal protective equip	it	
	Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, th 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 th necessary.	•
	Eye protection	Chemical splash goggles and face shield.	
	Hand protection	Chemical-resistant, impervious gloves complying with an approved standard sho be worn at all times when handling chemical products if a risk assessment indic this is necessary. Considering the parameters specified by the glove manufactu 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 o several substances, the protection time of the gloves cannot be accurately estimated.	ates urer,
	Gloves	For prolonged or repeated handling, use the following type of gloves:	
		May be used: nitrile rubber Recommended: neoprene, butyl rubber, polyvinyl alcohol (PVA), natural rubber (latex), Viton®	
	Body protection	Personal protective equipment for the body should be selected based on the tas 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 electrici 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, be eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated cloth Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	hing.

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## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Α.	Appearance	
	Physical state	: Liquid.
	Color	: Not available.
В.	Odor	: Characteristic.
С.	Odor threshold	: Not available.
D.	рН	: Not applicable.
Ε.	Melting/freezing point	: Not available.
F.	Boiling point/boiling range	: >37.78°C (>100°F)
G.	Flash point	: Closed cup: 22°C (71.6°F)
н.	Evaporation rate	: Not available.
Т.	Flammability (solid, gas)	: Not available.
J.	Lower and upper	: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)

### explosive (flammable) limits

K. Vapor pressure

L. Solubility(ies)

Vapor pressure			Vapor Pressure at 20°C			Vapor pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		ethylbenzene	9.3	1.2				
Solubility(ies)		Media	Re	sult	<u>.</u>			
oorubiiity(ics)		cold water	No	t soluble				
Solubility in water	:	Not available.						
Vapor density	:	Not available.						
Relative density	:	1.4						
Partition coefficient: n- octanol/water	:	Not applicable.						
Auto-ignition	:							

**Auto-ignition** Ρ. temperature

Μ.

Ν.

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Ingredient name	°C	°F	Method
1-methoxy-2-propanol	270	518	

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

: Not available.

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# Section 10. Stability and reactivity

Α.	Chemical stability	1	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

# Section 11. Toxicological information

Α.	Information on the like routes of exposure	ly : Not available.
<u>P</u>	otential acute health eff	<u>ects</u>
	Inhalation	: Toxic if inhaled.
	Ingestion	: Harmful if swallowed.
	Skin contact	: Harmful in contact with skin. Causes skin irritation. Defatting to the skin.
	Eye contact	: Causes serious eye damage.
<u>0</u>	ver-exposure signs/syn	<u>nptoms</u>
	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
	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

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
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	-
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	Rat	0.14 mg/l	4 hours
	mists	Dahbit		
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	177 mg/kg	-
4-Bromo-2-(4-chlorophenyl)-5-	LC50 Inhalation Dusts and	Rat	<0.25 mg/l	4 hours
(trifluoromethyl)-1H-pyrrole-	mists			
3-carbonitrile				
	LD50 Dermal	Rat	520 to 750 mg/kg	-
	LD50 Oral	Rat	28.7 mg/kg	-
carbon black	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
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		Ditt		mg	0.4.1
zinc pyrithione	Eyes - Cornea opacity	Rabbit	4	24 hours	24 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.		
	There are no data available c There are no data available c				
Mutagenicity Conclusion/Summary :	There are no data available	on the mixture i	tself.		
Carcinogenicity Conclusion/Summary :	There are no data available	on the mixture i	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 toxicit					

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

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### Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Xylene 1-methoxy-2-propanol Talc , not containing asbestiform fibres	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	: Causes 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.

#### **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
Xylene ethylbenzene	CAS: 1330-20-7 CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 3ACUTE TOXICITY (dermal) - Category 4ACUTE TOXICITY (inhalation) - Category 4SKIN IRRITATION - Category 2EYE IRRITATION - Category 2ASPECIFIC TARGET ORGAN TOXICITY (SINGLEEXPOSURE) (Narcotic effects) - Category 3SPECIFIC TARGET ORGAN TOXICITY(REPEATED EXPOSURE) - Category 1FLAMMABLE LIQUIDS - Category 2ACUTE TOXICITY (inhalation) - Category 4CARCINOGENICITY - Category 2ASPIRATION HAZARD - Category 1AQUATIC HAZARD (LONG-TERM) - Category 3
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# Section 11. Toxicological information

Category 3
GAN TOXICITY (SINGLE
ffects) - Category 3
- Category 3
ation) - Category 2
E - Category 1
TION - Category 2
GAN TOXICĬTÝ
E) - Category 1
UTE) - Category 1
NG-TERM) - Category 1
GAN TOXÍCITY (SINGLE
y tract irritation) -
- Category 2
0,
nal) - Category 3
ation) - Category 3
UTE) - Category 1
NG-TERM) - Category 1
ategory 2
NG-TERM)

# 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
	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
4-Bromo-2-(4-chlorophenyl) -5-(trifluoromethyl)-1H- pyrrole-3-carbonitrile	Acute EC50 0.012 mg/l	Algae	72 hours
	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

#### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene zinc pyrithione		79 % - Readily - 10 days 39 % - 28 days	-	-

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# Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene	-	-	Readily
ethylbenzene zinc pyrithione	-	- 50%; < 28 day(s)	Readily Not readily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12	7.4 to 18.5	low
ethylbenzene	3.6	79.43	low
1-methoxy-2-propanol	<1	-	low
zinc pyrithione	0.9	0.9	low

#### D. Mobility in soil

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

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

### 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. (xylene, pyrithione zinc)	FLAMMABLE LIQUID, TOXIC, N.O.S. (xylene, pyrithione zinc)	FLAMMABLE LIQUID, TOXIC, N.O.S.	
0.7			(xylene, pyrithione zinc)	
C. Transport hazard class(es)	3 (6.1)	3 (6.1)	3 (6.1)	
D. Packing group	II	II	II	
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### Section 14. Transport information

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, 1H-Pyrrole- 3-carbonitrile, 4-bromo-2- (4-chlorophenyl)-5- (trifluoromethyl)-)	Not applicable.

#### **Additional information**

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

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

#### Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

Α.	Regulation according to	SHA	
	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	ical Substances and Physical Factors	
	The following components have an OEL: Xylene ethylbenzene 1-methoxy-2-propanol Talc , not containing asbestiform fibres carbon black		
	ISHA Enforcement Regs	: None of the components are listed.	

# Annex 19 (Exposure standards established for harmful factors)

Date of issue 2/20/2023 (month/day/year)

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# Section 15. Regulatory information

	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: xylene, ethyl benzene, talc / soapstone
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Ethyl benzene
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, ethyl benzene, zinc and its compounds
В.	Regulation according to (	Che	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Barium and its compounds, Xylene including o-,m-,p- isomer, Ethylbenzene, Zinc and its compounds
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	<u>Dangerous Materials</u> <u>Safety Management Act</u>	:	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.
Е.	Regulation according to o	<u>oth</u>	er foreign laws
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

#### Product name Sigma NEXEON / TO N BLACK

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. Date of issue/Date of revision	: 2/20/2023
C. Version	: 1
Prepared by	: EHS

#### D. Other

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.