SAFETY DATA SHEET



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

Version 12

Section 1. Chemical product and company identification

A. Product name : SIGMA NEXEON 750

Product code : 00323930

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.; Antifouling products

Uses advised against: Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

Email Address

: PPG SSC (680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

Emergency telephone

number:

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 SKIN SENSITIZATION - 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 (LONG-TERM) - Category 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

Symbol :









Signal word : Danger

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Section 2. Hazards identification

H302 + H312 - Harmful if swallowed or in contact with skin.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H331 - Toxic if inhaled.

H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure. (central

nervous system (CNS), kidneys, liver)

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

Precautionary statements

Prevention

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

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

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.

P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash thoroughly after handling.

Response

: P391 - Collect spillage.

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.

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

P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel

unwell. Wash with plenty of water.

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

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.

C. 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	%
	XYLENES	CAS: 1330-20-7	10 -<20
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	5 - <10
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	5 - <10
	ETHER		
zinc pyrithione	pyrithione zinc	CAS: 13463-41-7	5 - <10
diiron trioxide	Diiron trioxide	CAS: 1309-37-1	5 - <10
Kaolin	ALUMINUM SILICATE	CAS: 1332-58-7	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)-		
dimethyl carbonate	DIMETHYL CARBONATE	CAS: 616-38-6	1 - <5
Octadecanamide, N,N'-1,6-hexanediylbis	N,N-1,6-HEXANEDIYLBIS	CAS: 55349-01-4	1 - <5
[12-hydroxy-	(12-HYDROXY-OCTADECANEIMIDE)		
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	0.1 - <1
methyl alcohol	METHYL ALCOHOL	CAS: 67-56-1	0.1 - <1

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

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

Section 4. First	aid measures
A. Eye contact	 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.
B. Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C. Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D. Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
E. Notes to physician Specific treatments	 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. No specific treatment.
Protection of first-aid	: 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)

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Section 5. Fire-fighting measures

A. Extinguishing media

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Suitable extinguishing

media

Unsuitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

: Do not use water jet.

B. 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

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 contractor.

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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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

- A. Precautions for safe handling
- Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not 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 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
X ylene	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.
diiron trioxide	Ministry of Employment and Labor

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Kaolin

Section 8. Exposure controls/personal protection

(Republic of Korea, 1/2020). [Iron oxide] TWA: 5 mg/m³, (as Fe) 8 hours. Form:

Fume

TWA: 5 mg/m³, (as Fe) 8 hours.

Ministry of Employment and Labor

(Republic of Korea, 1/2020).

TWA: 2 mg/m³ 8 hours. Form: Respirable

fraction

ethanol Ministry of Employment and Labor

(Republic of Korea, 1/2020).

methyl alcohol TWA: 1000 ppm 8 hours.

Ministry of Employment and

Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed

through skin.

STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.

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.

B. 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 controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

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

C. Personal protective equipment

Respiratory protection

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

Eye protection Hand protection : Chemical splash goggles and face shield.

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

Gloves

: butyl rubber

Body protection

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

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Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 9. Physical and chemical properties

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

A. Appearance

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

range

G. Flash point : Closed cup: 22°C (71.6°F)

H. Evaporation rate : Not available. Flammability (solid, gas) : Not available.

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)

K. Vapor pressure

	Vapor Pressure at 20°C		Vapo	r pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
dimethyl carbonate	56.78	7.6	OECD 104			

L. Solubility(ies)

Media Result cold water Not soluble

Solubility in water : Not available. Vapor density Not available.

Relative density 1.43

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition

temperature

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

Decomposition

temperature

: Not available.

Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

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Section 9. Physical and chemical properties

S.

Flow time (ISO 2431) : Not available. **Molecular weight** : Not applicable.

Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

Possibility of hazardous

reactions

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

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

products.

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

oxidizing agents, strong alkalis, strong acids.

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

materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds

metal oxide/oxides

Section 11. Toxicological information

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

Potential acute health effects

decomposition products

Inhalation : Toxic if inhaled. : Harmful if swallowed. Ingestion

Skin contact : Harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause

an allergic skin reaction.

Eye contact : Causes serious eye damage.

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

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

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Section 11. Toxicological information

Eye contact

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: Adverse symptoms may include the following: pain

watering redness

B. Health hazards

Acute toxicity

Result	Species	Dose	Exposure
LD50 Dermal	Rabbit	1.7 g/kg	-
LD50 Oral	Rat	4.3 g/kg	-
LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
LD50 Dermal	Rabbit	17.8 g/kg	-
LD50 Oral	Rat	3.5 g/kg	-
LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
LD50 Dermal	Rabbit	13 g/kg	-
LD50 Oral	Rat	5.2 g/kg	-
LC50 Inhalation Dusts and	Rat	0.14 mg/l	4 hours
	Rabbit	>2 a/ka	_
			_
			4 hours
mists] - 3.	
LD50 Oral	Rat	10 g/kg	-
LC50 Inhalation Dusts and	Rat	>5.07 mg/l	4 hours
1	Rat	>5000 mg/kg	_
			4 hours
	T COL	0.20 mg/1	1110010
50			
LD50 Dermal	Rat	520 to 750 mg/kg	_
			_
			4 hours
LD50 Dermal	Rabbit		_
LD50 Oral	Rat		-
	Rat		4 hours
LD50 Dermal	Rat		-
LD50 Oral	Rat		-
	Rat		4 hours
LD50 Dermal	Rabbit		-
LD50 Oral	Rat	5600 mg/kg	_
	LD50 Dermal LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral LC50 Inhalation Vapor LD50 Dermal LC50 Inhalation Vapor LD50 Dermal LC50 Inhalation Vapor LD50 Oral LC50 Inhalation Vapor	LD50 Dermal LD50 Oral LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral LD50 Oral Rat LC50 Inhalation Vapor	LD50 Dermal Rabbit 1.7 g/kg LD50 Oral Rat 4.3 g/kg LC50 Inhalation Vapor Rat 17.8 mg/l LD50 Dermal Rabbit 17.8 g/kg LD50 Oral Rat 3.5 g/kg LC50 Inhalation Vapor Rat >7000 ppm LD50 Dermal Rabbit 13 g/kg LD50 Oral Rat 5.2 g/kg LC50 Inhalation Dusts and mists Rat 177 mg/kg LD50 Oral Rat 177 mg/kg LC50 Inhalation Dusts and mists Rat 10 g/kg LD50 Oral Rat 10 g/kg LC50 Inhalation Dusts and mists Rat >5.07 mg/l LD50 Oral Rat >5000 mg/kg LC50 Inhalation Dusts and mists Rat 2.25 mg/l LD50 Dermal Rat 22.5 g/kg LD50 Oral Rat 140000 mg/m³ LD50 Dermal Rat 12.9 g/kg LC50 Inhalation Vapor Rat 12.4700 mg/m³ LD50 Dermal Rat 17100 mg/kg

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
▼ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
zinc pyrithione	Eyes - Cornea opacity	Rabbit	4	mg 24 hours	24 hours

Conclusion/Summary

Skin : There are no data available on the mixture itself. : There are no data available on the mixture itself. **Eyes** Respiratory : There are no data available on the mixture itself.

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Section 11. Toxicological information

Sensitization

Conclusion/Summary

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Skin : There are no data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
▼ylene 1-methoxy-2-propanol dimethyl carbonate	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract irritation
methyl alcohol	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
▼ylene	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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.

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Section 11. Toxicological information

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	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3 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 (REPEATED EXPOSURE) - Category 1
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
1-methoxy-2-propanol	CAS: 107-98-2	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
zinc pyrithione	CAS: 13463-41-7	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 2 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
diiron trioxide	CAS: 1309-37-1	Not classified.
Kaolin 4-Bromo-2-(4-chlorophenyl)-5- (trifluoromethyl)-1H-pyrrole-3-carbonitrile	CAS: 1332-58-7 CAS: 122454-29-9	Not classified. ACUTE TOXICITY (oral) - Category 2
dimethyl carbonate	CAS: 616-38-6	ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy-	CAS: 55349-01-4	SKIN SENSITIZATION - Category 1B
ethanol	CAS: 64-17-5	AQUATIC HAZARD (LONG-TERM) - Category 4 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

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Section 11. Toxicologica	al information	1		
methyl alcohol	CAS: 67-56-1	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SIN EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category		

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
e thylbenzene	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
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
	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
dimethyl carbonate	Acute LC50 >100 mg/l	Fish	96 hours
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
methyl alcohol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

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	radability
Xylene ethylbenzene zinc pyrithione ethanol	- - - -		- - 50%; < 28 day(s) -		Readily Readily Not read Readily	dily

C. Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
X ylene	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
dimethyl carbonate	0.354	-	Low
ethanol	-0.35	-	Low
methyl alcohol	-0.77	-	Low

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

E. Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

- A. Disposal methods
- : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- **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	IATA	
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.	
	(xylene, pyrithione zinc)	(xylene, pyrithione zinc)	(xylene, pyrithione zinc)	
C. Transport hazard class(es)	3 (6.1)	3 (6.1)	3 (6.1)	
D. Packing group	II	II	II	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	

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Section 14. Transport information

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 ≤5 L or ≤5 kg.

IATA : 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

A. Regulation according to ISHA

ISHA article 117 : None of the components are listed.

(Harmful substances prohibited from manufacture)

ISHA article 118 : None of the components are listed.

(Harmful substances requiring permission)

Article 2 of Youth Protection : It is not allowed to sell to persons under the age of 19.

Act on Substances Hazardous to Youth

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

Kylene ethylbenzene 1-methoxy-2-propanol diiron trioxide Kaolin

ethanol methyl alcohol

ISHA Enforcement Regs: The following components are listed: methanol

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs : The following components are listed: xylene, ethyl benzene, iron oxide, silicates Annex 21 (Harmful

factors subject to Work
Environment

Environment Measurement)

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Section 15. Regulatory information

Annex 22 (Harmful

Factors Subject to Special Health Check-

up)

Standard of Industrial **Safety and Health Annex 12 (Hazardous** substances subject to control)

ISHA Enforcement Regs : The following components are listed: Xylene, Ethyl benzene, Iron oxide (dust, fume)

: The following components are listed: xylene, ethyl benzene, zinc and its compounds,

iron and its compounds

B. Regulation according to Chemicals 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)

Article 19 Subject to authorization (K-Reach

Article 25)

: None of the components are listed.

: None of the components are listed.

: None of the components are listed.

Article 20 Restricted (K-

Reach Article 27)

Article 20 Toxic Chemicals (K-Reach

Article 20)

: Toxic

Korea inventory Article 39 (Accident Precaution Chemicals)

: The following components are listed: zinc pyrithione

C. Dangerous Materials

Safety Management Act

: Class: Class 4 - Flammable Liquid

: All components are listed or exempted.

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: |||

Signal word: Contact with sources of ignition prohibited

Dispose of contents and container in accordance with all local, regional, national D. Wastes regulation and international regulations.

E. Regulation according to other 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).

Section 16. Other information

A. References Korean Ministry of Environment; Chemical Control Act

Korean Ministry of Labor; Industrial Safety and Health Act

NIER Notice

Registry of Toxic Effects of Chemical Substances (RTECS)

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

Retrieval) ECOTOX Database System.

B. First issue date : 12/22/2018

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Section 16. Other information

C. Date of issue/Date of : 8/13/2024

revision

D. Version : 12
Prepared by : EHS

E. Other

▼ Indicates information that has changed from previously issued version.

Disclaimer

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

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