# SAFETY DATA SHEET



Date of issue 6/3/2024 (month/day/year)

Version 3

## Section 1. Chemical product and company identification

A. Product name<br/>Product code: AMERSHIELD NEUTRAL TINT RESIN<br/>: 00333813

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

Product use	: Industrial 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 Korea MSDS@PRG COM
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: ₱82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification	: 🗾 AMMABLE LIQUIDS - Category 3
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is close; field in a	accordence with the Industrial Cafety and Lipstich Act and the Chemical Central Act

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements

**Symbol** 



Signal word

: Danger

Hazard statements

- : H226 Flammable liquid and vapor.
  - H317 May cause an allergic skin reaction.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H350 May cause cancer.
  - H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

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### Section 2. Hazards identification

	Prevention	:	<ul> <li>202 - 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>P284 - Wear respiratory 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>P261 - Avoid breathing vapor.</li> </ul>
	Response	:	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> </ul>
	Storage	1	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.
<b>C</b> .	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.

Chemical name	Common name	Identifiers	%
p-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	10 -<20
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	1 - <5
ethyl 3-ethoxypropionate	ETHYL-3-ETHOXYPROPIONATE	CAS: 763-69-9	1 - <5
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	1 - <5
nonylphenol ethoxylates	POLYOXYETHYLENE NONYLPHENYL ETHER PHOSPHATE	CAS: 68412-53-3	0.1 - <1
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	BIS(PENTAMETHYLPIPERIDYL) SEBACATE	CAS: 41556-26-7	0.1 - <1
4-isocyanatosulphonyltoluene	TOSYL-ISOCYANATE	CAS: 4083-64-1	0.1 - <1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	METHYL-(1,2,2,6,6-PENTAMETHYL- 4-PIPERDIYL) SEBACATE	CAS: 82919-37-7	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.

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## Section 4. First aid measures

Α.	Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
в.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	1	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

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

## Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
C. Methods and materials for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Special provisions	:	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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
Section 7. Handlin	g	and storage
A. Precautions for safe handling	:	♥ut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. 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-

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## Section 7. Handling and storage

proof electrical (ventilating, lighting and material handling) equipment. Use only nonsparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**B.** Conditions for safe : Do not store above the following temperature: 50°C (122°F). Store in accordance storage, including any 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 incompatibilities 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.

Precautions should be taken to minimize exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurization.

## Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

	Ingredient name			Exposure limits
	-butyl acetate crystalline silica, respirable	e po	owder (<10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	Recommended monitoring procedures	:	Reference should be made to appropri national guidance documents for meth substances will also be required.	ate monitoring standards. Reference to ods for the determination of hazardous
в.	Appropriate engineering controls	:		s to keep worker exposure to airborne d or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls	:		
С.	Personal protective equip	m	ent	
	Respiratory protection	:	fed respirator is not necessary, in whic should be utilized to determine whether type of protection is appropriate. Resp	specific assessment determines that an air- ch case the results of the risk assessment er respiratory protection is necessary and what birator selection must be based on known or ds of the product and the safe working limits
	Eye protection	:	Safety glasses with side shields.	

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### Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: 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.
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.
Restrictions on use	: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

## 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	:	Characteristic.	
С.	Odor threshold	:	Not available.	
D.	рН	:	Not applicable.	
Ε.	Melting/freezing point	:	Not available.	
F.	Boiling point/boiling range	1	>37.78°C (>100°F)	
G.	Flash point	:	Closed cup: 43.33°C (110°F)	
н.	Evaporation rate	:	1.04 (butyl acetate = 1)	
Т.	Flammability (solid, gas)	:	Not available.	
J.	Lower and upper explosive (flammable) limits	-	Greatest known range: Lower: 1	.05% Upper: 9.8% (ethyl 3-ethoxypropionate)
Κ.	Vapor pressure	:	2.8 kPa (21.2 mm Hg)	
Е.	Solubility(ies)		Media Resu	ilt
_	()	Ĵ	cold water Not s	soluble
	Solubility in water	:	2.1 g/l	
М.	Vapor density	:	Not available.	
N.	Relative density	1	1.34	

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O. Partition coefficient: n- octanol/water	- 1	Not applicable.			
P. Auto-ignition temperature	:				
		Ingredient name	°C	°F	Method
		methoxy-1-methylethyl acetate	333	631.4	DIN 51794
Decomposition Q. temperature	:	Not available.			<b> </b>
Viscosity R.	:	Kinematic (40°C (104°F)): >2	1 mm²/s (>2	21 cSt)	
Flow time (ISO 2431)	:	Not available.			
Molecular weight S.	:	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	:	In a fire, hazardous decomposition products may be produced.
C.	Incompatible materials	:	Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

## Section 11. Toxicological information

: Not available.
<u>ts</u>
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
No known significant effects or critical hazards.
Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
No known significant effects or critical hazards.
toms
Adverse symptoms may include the following: wheezing and breathing difficulties asthma
No specific data.
Adverse symptoms may include the following: irritation redness dryness cracking

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## Section 11. Toxicological information

Eye contact

: No specific data.

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

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<mark>p-</mark> butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
4-isocyanatosulphonyltoluene	LD50 Oral	Rat	2234 mg/kg	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-

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

Irritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available on the mixture itself.			
Eyes	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
Sensitization				
Conclusion/Summary	The second second states are the base of the second states of the second			
Skin	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
Mutagopicity				
Mutagenicity				
Conclusion/Summary	: There are no data available on the mixture itself.			
<b>Carcinogenicity</b>				
Conclusion/Summary	: There are no data available on the mixture itself.			
conclusion/Summary				
Reproductive toxicity				
	: There are no data available on the mixture itself.			
Conclusion/Summary				
<b>Teratogenicity</b>				
Conclusion/Summary	: There are no data available on the mixture itself.			
conclusion/Summary				
Specific target organ toxicity (single exposure)				
opeone target ergan textery (engle exposure)				

### Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
<ul><li>p-butyl acetate</li><li>2-methoxy-1-methylethyl acetate</li><li>4-isocyanatosulphonyltoluene</li></ul>	Category 3 Category 3 Category 3	- -	Narcotic effects Narcotic effects Respiratory tract irritation

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

Not available.

#### Aspiration hazard

Not available.

#### Potential chronic health effects

General	: 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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **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. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
p-butyl acetate	CAS: 123-86-4	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ethyl 3-ethoxypropionate	CAS: 763-69-9	FLAMMABLE LIQUIDS - Category 3
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
nonylphenol ethoxylates	CAS: 68412-53-3	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B
		TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
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4-isocyanatosulphonyltoluene	CAS: 4083-64-1	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - SKIN SENSITIZATION - Category SPECIFIC TARGET ORGAN TOXI EXPOSURE) (Respiratory tract irrit Category 3	1A CITY (SINGLE
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS: 82919-37-7	SKIN SÉNSITIZATION - Category TOXIC TO REPRODUCTION - Cat AQUATIC HAZARD (ACUTE) - Cat AQUATIC HAZARD (LONG-TERM	egory 2 egory 1

## Section 12. Ecological information

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ethyl 3-ethoxypropionate	Acute LC50 60.9 mg/l	Fish	96 hours

#### B. Persistence and degradability

Product/ingredient name	Test Result			Dose		Inoculum
-butyl acetate 2-methoxy-1-methylethyl	TEPA and OECD 301D -		adily - 28 days adily - 28 days	-		-
acetate						
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
-butyl acetate 2-methoxy-1-methylethyl acetate	-		-		Readily Readily	
ethyl 3-ethoxypropionate	-	-			Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
-butyl acetate	2.3	-	Low
2-methoxy-1-methylethyl	1.2	-	Low
acetate			
ethyl 3-ethoxypropionate	1.47	-	Low

D. <u>Mobility in soil</u> Soil/water partition : coefficient (K<sub>oc</sub>)

: 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	ΙΑΤΑ
A. UN number	UN1263	UN1263	UN1263
B. UN proper PAINT shipping name		PAINT	PAINT
C. Transport 3 hazard class(es)		3	3
D. Packing group		III	III
Environmental No. nazards		No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

- UN: None identified.IMDG: None identified.
- IATA : None identified.

## 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

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## Section 15. Regulatory information

	•		-		
Α.	Regulation according to I	SH	IA III III III III III III III III III		
	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	al Substances and Physical Factors		
	The following components -butyl acetate crystalline silica, respirable				
		•			
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.		
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: n-butyl acetate, quartz		
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	None of the components are listed.		
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: n-butyl acetate		
В.	Regulation according to Chemicals Control Act				
	Article 11 (TRI)	:	None of the components are listed.		
	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)	:	The following components are listed: nonylphenol ethoxylates		
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable		
	Korea inventory	:	All components are listed or exempted.		

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### Section 15. Regulatory information

Article 39 (Accident Precaution Chemicals)	:	The following components are listed: nonylphenol ethoxylates	
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	
Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Regulation according to	<u>o 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).	
	Precaution Chemicals) <u>Dangerous Materials</u> <u>Safety Management Act</u> <u>Wastes regulation</u> <u>Regulation according to a</u> <u>Safety, health and</u> <u>environmental</u> regulations specific for	Precaution Chemicals)Dangerous MaterialsSafety Management ActSafety Management ActWastes regulation:Regulation according to othSafety, health and:environmentalregulations specific for	

## 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	:	1/15/2020
C.	Date of issue/Date of revision	:	6/3/2024
D.	Version	:	3
	Prepared by	:	EHS
Ε.	Other		

Indicates information that has changed from previously issued version.

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