



_	te of issue 5/23/2023 rsion 1.02	(month/day/year)	SDS Number:	AA00147-5300000124
S	ection 1. Chem	ical product ar	nd company io	lentification
Α.	Product name Product code	: AMERSHIELD VC : 00452382	DC RED F/S 11105 RES	SIN
в.	Relevant identified use	es of the substance or I	mixture and uses advi	sed against
	Product use	: Professional appli	cations, Used by sprayi	ng.
	Use of the substance/ mixture	: Coating.		
	Uses advised against	: Product is not inte	ended, labelled or packa	aged for consumer use.
C.	Supplier's or Importer information Email Address	(680-090)		
	Emergency telephone number:	: +82-52-210-8222	2	

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 1A AQUATIC HAZARD (LONG-TERM) - Category 3 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 Hazard statements : Danger

: H226 - Flammable liquid and vapor.

- H350 May cause cancer. H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statements

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Section 2. Hazards identification

Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment.
Response	: P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	: P403 + P235 - Store in a well-ventilated place. Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do not result in	: Prolonged or repeated contact may dry skin and cause irritation.

classification

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS	number

: Not applicable.

Chemical name	Common name	Identifiers	%
tert-butyl acetate	TERT-BUTYL ACETATE	CAS: 540-88-5	10 -<20
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
ethyl 3-ethoxypropionate	ETHYL-3-ETHOXYPROPIONATE	CAS: 763-69-9	1 - <5
n-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	1 - <5
4-chloro-α,α,α-trifluorotoluene	PARACHLOROBENZOTRIFLUORIDE	CAS: 98-56-6	1 - <5
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	BIS(PENTAMETHYLPIPERIDYL)	CAS: 41556-26-7	0.1 - <1
sebacate	SEBACATE		
Distillates (petroleum), hydrotreated light	DISTILLATES (PETROLEUM),	CAS: 64742-47-8	0.1 - <1
	HYDROTREATED LIGHT		
crystalline silica, respirable powder (<10	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1
microns)			
naphthalene	NAPHTHALENE	CAS: 91-20-3	0.1 - <1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl	METHYL-(1,2,2,6,6-PENTAMETHYL-	CAS: 82919-37-7	0.1 - <1
sebacate	4-PIPERDIYL) SEBACATE		

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

: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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.

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Section 4. First aid measures

C.	Inhalation	-	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	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

			-
Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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 nitrogen oxides halogenated compounds carbonyl halides metal oxide/oxides
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Fire-fighting procedures	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	-	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
C. Methods and materials for	СС	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Α.	Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). 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-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
в.	Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
tert-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 200 ppm 8 hours.
itanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: total dust
	with less than 1% of free SiO2
n-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 1/2022).
	[Kerosene] Absorbed through skin.
	TWA: 200 mg/m³, (as total hydrocarbon
	vapor) 8 hours.
crystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 0.05 mg/m ³ 8 hours. Form:
	Respirable fraction
naphthalene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	STEL: 15 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
Recommended : Reference should be ma	ade to appropriate monitoring standards. Reference to
nonitoring procedures national guidance docur	ments for methods for the determination of hazardous
substances will also be	required.
Appropriate engineering : Use only with adequate	ventilation. Use process enclosures, local exhaust
	neering controls to keep worker exposure to airborne
	recommended or statutory limits. The engineering control
	vapor or dust concentrations below any lower explosive
	roof 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

Β.

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	: Safety glasses with side shields.
	· Dalety 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	: F ∕or prolonged or repeated handling, use the following type of gloves:
	May be used: butyl rubber Not recommended: nitrile rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

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

Α.	Appearance			
	Physical state	1	Liquid.	
	Color	1	Red.	
В.	Odor	1	Characteristic.	
C .	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: 45°C (12	13°F)
н.	Evaporation rate	:	Not available.	
I.	Flammability (solid, gas)	:	Not available.	
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang	e: Lov
K.	Vapor pressure	:		Va
			Ingredient name	mm

÷.,		
:	Greatest known range: Lower: 0.9% U	pper: 10.5% (4-chloro- α , α , α -trifluorotoluene)

	Vapo	r Pressui	ure at 20°C Vapor pressure at			re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
tert-butyl acetate	42	5.6	ASTM D 2878			

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Section 9. Physical and chemical properties

L.	Solubility(ies)		Media Re	sult			
			cold water No	t soluble			
	Solubility in water	:	Not available.				
И.	Vapor density	:	Not available.				
VI. N.	Relative density	:	1.2				
0 .	Partition coefficient: n- octanol/water	:	Not applicable.				
.	Auto-ignition temperature	:					
			Ingredient name	°C	°F	Method	
			4-[[4-(aminocarbonyl)phenyl]azo]-N- (2-ethoxyphenyl) -3-hydroxynaphthalene-2-carboxamic	>140 le	>284		
ว .	Decomposition temperature	:	Not available.			•	
२ .	Viscosity	:	Kinematic (40°C (104°F)): >21	mm²/s (>2	1 cSt)		
` .	Flow time (ISO 2431)	:	Not available.				
S.	Molecular weight	:	Not applicable.				

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 halogenated compounds carbonyl halides metal oxide/oxides

Section 11. Toxicological information

A. Information on the routes of exposur	
Potential acute healt	h effects
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Eye contact	: No known significant effects or critical hazards.
Over-exposure signs	s/symptoms
Inhalation	: No specific data.

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Section 11. Toxicological information

Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Eye contact	: No specific data.

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
tert-butyl acetate	LD50 Oral	Rat	4100 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
n-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	-
4-chloro-α,α,α-trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	LD50 Oral	Rat	3.125 g/kg	-
sebacate				
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 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	
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	

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Section 11. Toxicological information

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
 p-butyl acetate 4-chloro-α,α,α-trifluorotoluene 	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Sistillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Potential chronic health effects

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

Chemical name	Identifiers	GHS Classification
tert-butyl acetate	CAS: 540-88-5	FLAMMABLE LIQUIDS - Category 2
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
ethyl 3-ethoxypropionate	CAS: 763-69-9	FLAMMABLE LIQUIDS - Category 3
n-butyl acetate	CAS: 123-86-4	FLAMMABLE LIQUIDS - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
4-chloro-α,α,α-trifluorotoluene	CAS: 98-56-6	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B
		TOXIC TO REPRODUCTION - Category 2
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Section 11. Toxicological information

		AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
Distillates (petroleum), hydrotreated light	CAS: 64742-47-8	CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
naphthalene	CAS: 91-20-3	FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS: 82919-37-7	CARCINOGENICITY - Category 2 SKIN SENSITIZATION - Category 1B
		TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure	
ethyl 3-ethoxypropionate	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 60.9 mg/l	Fish	96 hours	
	Acute LC50 18 mg/l	Fish	96 hours	

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Rea	83 % - Readily - 28 days		-	
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
ethyl 3-ethoxypropionate n-butyl acetate Distillates (petroleum), hydrotreated light	- - -		- - -		Readily Readily Readily	,

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tert-butyl acetate	1.64	-	low
ethyl 3-ethoxypropionate	1.47	-	low
n-butyl acetate	2.3	-	low
Distillates (petroleum), hydrotreated light	-	159	low
naphthalene	3.4	85.11	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.

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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 shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
Environmental hazards	No.	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	<u>A</u>
	ISHA article 117 (Harmful substances prohibited from manufacture)	:	None of the components are listed.
	ISHA article 118 (Harmful substances requiring permission)	:	None of the components are listed.
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	:	It is not allowed to sell to persons under the age of 19.
	Exposure Limits of Chem	ica	I Substances and Physical Factors
	The following components fert-butyl acetate titanium dioxide n-butyl acetate Distillates (petroleum), hyd crystalline silica, respirable naphthalene	dro	treated light
	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: titanium dioxide, n-butyl acetate
	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: titanium dioxide, n-butyl acetate
В.	Regulation according to C	Che	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Naphthalene
	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)	1	None of the components are listed.

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Section 15. Regulatory information

	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to	oth	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).

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.	Date of issue/Date of revision	: 5/23/2023
С.	Version	: 1.02
	Prepared by	: EHS
П	Other	

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.