# **SAFETY DATA SHEET**



Date of issue 5/23/2023 (month/day/year)

Version 1.02

# Section 1. Chemical product and company identification

A. Product name : AMERSHIELD VOC YELLOW F/S 13538 RESIN

Product code : 00452383

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

**Product use** : Professional applications, Used by spraying.

**Use of the substance/** 

mixture

: Coating.

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

C. Supplier's or Importer's

information

**Email Address** 

: PPG SSC (680-090)

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

Ulsan, Korea

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

**Emergency telephone** 

number:

: +82-52-210-8222

# 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 : Danger

**Hazard statements** : 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 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	%
tert-butyl acetate	TERT-BUTYL ACETATE	CAS: 540-88-5	10 -<20
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
iron hydroxide oxide yellow	IRON HYDROXIDE OXIDE	CAS: 51274-00-1	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 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1
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	OAG. 02019-01-1	0.1 - 11

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

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.

·

: 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 : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### A. Extinguishing media

Suitable extinguishing

media

C. Inhalation

Unsuitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

B. 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

: Do not use water jet.

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

Product code 00452383

- : 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 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.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

- A. 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.
- 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.

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# Section 8. Exposure controls/personal protection

### A. Occupational exposure limits

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Ingredient name	Exposure limits
tert-butyl acetate	Ministry of Employment and Labor
·	(Republic of Korea, 1/2020).
	TWA: 200 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m³ 8 hours. Form: total dust
	with less than 1% of free SiO2
iron hydroxide oxide yellow	Ministry of Employment and Labor
	(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.
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 <sup>3</sup> 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 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.
- controls
- B. Appropriate engineering : 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

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## Section 8. Exposure controls/personal protection

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.

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 : For 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.

A. Appearance

Physical state : Liquid.

Color : Yellow.

B. Odor : Characteristic.
C. Odor threshold : Not available.
D. pH : Not applicable.
E. Melting/freezing point : Not available.

F. Boiling point/boiling

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 45°C (113°F)

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

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 0.9% Upper: 10.5% (4-chloro-α,α,α-trifluorotoluene)

K. Vapor pressure :

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# Section 9. Physical and chemical properties

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

L. Solubility(ies)

Media Result Not soluble cold water

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

**Relative density** : 1.27

Partition coefficient: n-

: Not applicable.

octanol/water

**Auto-ignition** temperature

Ingredient name	°C	°F	Method
2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide	180	356	VDI 2263

**Decomposition** temperature

S.

: Not available.

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

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

# Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

reactions

Possibility of hazardous: 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.

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

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# **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: Not available.

#### Potential acute health 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/symptoms**

Inhalation: No specific data.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	-
iron hydroxide oxide yellow	LC50 Inhalation Dusts and mists	Rat	>5.05 mg/l	4 hours
	LD50 Oral	Rat	>10 g/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 <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
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.

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# **Section 11. Toxicological information**

**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** 

**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
	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

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

Not available.

#### **Aspiration hazard**

Name	Result
Distillates (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**: 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. Avoid contact with skin and clothing.

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# Section 11. Toxicological information

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
iron hydroxide oxide yellow	CAS: 51274-00-1	Not classified.
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)	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B
sebacate		
		TOXIC TO REPRODUCTION - Category 2
		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	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
microns)		
naphthalene	CAS: 91-20-3	FLAMMABLE SOLIDS - Category 2
		ACUTE TOXICITY (oral) - Category 4
		CARCINOGENICITY - Category 2
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS: 82919-37-7	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
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
iron hydroxide oxide yellow	Acute LC50 >100000 mg/l	Fish	96 hours
ethyl 3-ethoxypropionate	Acute LC50 60.9 mg/l	Fish	96 hours
n-butyl acetate	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	adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
ethyl 3-ethoxypropionate n-butyl acetate Distillates (petroleum), hydrotreated light	-		- - -		Readily Readily Readily	

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# **Section 12. Ecological information**

### 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),	-	159	low
hydrotreated light			
naphthalene	3.4	85.11	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**

IATA	IMDG	UN	
UN1263	UN1263	UN1263	A. UN number
PAINT	PAINT	PAINT	B. UN proper shipping name
3	3	3	C. Transport hazard class(es)
III	III	III	D. Packing group
No.	No.	No.	Environmental hazards
	No.	No.	

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Section 14. Transport information

E. Marine Not applicable. Not applicable. Not applicable. Substances

#### **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

# **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:

tert-butyl acetate

titanium dioxide

iron hydroxide oxide yellow

n-butyl acetate

Distillates (petroleum), hydrotreated light

crystalline silica, respirable powder (<10 microns)

naphthalene

ISHA Enforcement Regs : None of the components are listed.

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs : The following components are listed: titanium dioxide, iron oxide, n-butyl acetate Annex 21 (Harmful

factors subject to Work 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: Iron oxide (dust, fume)

: The following components are listed: titanium dioxide, iron and its compounds, n-

butyl acetate

: Not applicable

B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: Naphthalene

: None of the components are listed.

: None of the components are listed.

: None of the components are listed.

Article 18 Prohibited (K-

Reach Article 27)

**Article 19 Subject to** 

authorization (K-Reach Article 25)

**Article 20 Restricted (K-**

Reach Article 27)

**Article 20 Toxic** 

**Chemicals (K-Reach** 

Article 20)

**Korea inventory** : All components are listed or exempted. **Article 39 (Accident** : None of the components are listed.

**Precaution Chemicals**) 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.

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. Date of issue/Date of

revision

5/23/2023

1.02 C. Version

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**Product name AMERSHIELD VOC YELLOW F/S 13538 RESIN** 

### **Section 16. Other information**

Prepared by

: EHS

▼ Indicates information that has changed from previously issued version.

D. Other

#### **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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