# **SAFETY DATA SHEET**



Date of issue 5/18/2021 (month/day/year)

Version 4

# Section 1. Chemical product and company identification

A. Product name : PITT-GUARD DTR WHITE BASE COMP A

Product code : 00338218

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

Product use : Industrial applications.

Use of the substance/

mixture

: Coating.

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

C. Supplier's information : 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:

**Email Address** 

: +82-52-210-8222

# Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 2

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 1A REPRODUCTIVE TOXICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

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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Product name PITT-GUARD DTR WHITE BASE COMP A

## Section 2. Hazards identification

**Hazard statements** 

: H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H350 - May cause cancer.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

(central nervous system (CNS), kidneys, liver) H411 - Toxic to aquatic life with long lasting effects.

## **Precautionary statements**

**Prevention** 

: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eve 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.

P233 - Keep container tightly closed.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.

> P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: 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** : F403 + 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

: Causes digestive tract burns. 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	%
tranium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	30 - <40
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	POLYAMIDE RESIN	CAS: 68410-23-1	20 - <30
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
Mica-group minerals	MICA	CAS: 12001-26-2	1 - <5
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	CAS: 108-10-1	1 - <5
Toluene	TOLUENE	CAS: 108-88-3	1 - <5
Isopropyl alcohol	ISOPROPYL ALCOHOL	CAS: 67-63-0	1 - <5

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Product name PITT-GUARD DTR WHITE BASE COMP A				
Section 3. Composition/information on ingredients				
4-hydroxy-4-methylpentan-2-one	4-HYDROXY-4-METHYLPENTAN- 2-ONE / DIACETONE ALCOHOL	CAS: 123-42-2	1 - <5	
3,6-diazaoctanethylenediamin	TRIETHYLENETETRAMINE	CAS: 112-24-3	1 - <5	
aluminium hydroxide ethylbenzene	ALUMINUM HYDROXIDE ETHYLBENZENE	CAS: 21645-51-2 CAS: 100-41-4	1 - <5 1 - <5	
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1	

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0.1 - < 1

CAS: 111-40-0

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.

DIETHYLENETRIAMINE

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

## Section 4. First aid measures

Product code 00338218

2,2'-iminodiethylamine

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.

- B. Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised 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 the 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. Firefighting measures

A. Extinguishing media

Suitable extinguishing

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

media

Unsuitable :

extinguishing media

: Do not use water jet.

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# **Section 5. Firefighting measures**

- from the chemical
- B. Specific hazards arising: Highly flammable liquid and vapour. 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 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 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **B. Environmental** precautions
- : Avoid dispersal of spilt 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 material 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 the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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# Section 7. Handling and storage

## A. Precautions for safe handling

- : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. 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 oxidising 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 unlabelled 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

<b>Exposure limits</b>
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
Ministry of Employment and Labor
(Republic of Korea, 1/2020).
STEL: 150 ppm 15 minutes.
TWA: 100 ppm 8 hours.
Ministry of Employment and Labor
(Republic of Korea, 1/2020).
TWA: 3 mg/m³ 8 hours. Form: Respirable
fraction
Ministry of Employment and Labor
(Republic of Korea, 1/2020).
STEL: 75 ppm 15 minutes.
TWA: 50 ppm 8 hours.
Ministry of Employment and Labor
(Republic of Korea, 1/2020).
STEL: 150 ppm 15 minutes.
TWA: 50 ppm 8 hours.

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## Section 8. Exposure controls/personal protection

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

STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.

4-hydroxy-4-methylpentan-2-one Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 50 ppm 8 hours.

ACGIH TLV (United States, 3/2020). aluminium hydroxide

TWA: 1 mg/m<sup>3</sup> 8 hours. Form: Respirable

fraction

ACGIH TLV (United States).

TWA: 1 mg/m<sup>3</sup>

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

STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.

Ministry of Employment and Labor crystalline silica, respirable powder (<10 microns)

(Republic of Korea, 1/2020). TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form:

Respirable fraction

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

TWA: 1 ppm 8 hours.

Recommended monitoring procedures

2,2'-iminodiethylamine

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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, vapour 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** 

: Chemical splash goggles and face shield.

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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.

# Section 9. Physical and chemical properties

A. Appearance

Physical state : Liquid.
Colour : White.

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

F. Boiling point/boiling

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 8.89°C (48°F)

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

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 2% Upper: 12% (Isopropyl alcohol)

K. Vapour pressure : Not available.

L. Solubility : Insoluble in the following materials: cold water.

Solubility in water : Not available.

M. Vapour density : Not available.

N. Relative density : 1.4

O. Partition coefficient: n-

octanol/water

: Not applicable.

P. Auto-ignition : Not available.

temperature

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## Section 9. Physical and chemical properties

Q. Decomposition temperature

: Not available.

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

S. 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

D. 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:

oxidising agents, strong alkalis, strong acids.

D. Hazardous

decomposition products

Depending on conditions, decomposition products may include the following

materials: carbon oxides nitrogen oxides metal oxide/oxides

# **Section 11. Toxicological information**

A. Information on likely routes : Not available.

of exposure

Potential acute health effects

Inhalation : No known significant effects or critical hazards.Ingestion : Corrosive to the digestive tract. Causes burns.

**Skin contact**: 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 foetal weight increase in foetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

stomach pains

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

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# **Section 11. Toxicological information**

Eye contact

: Adverse symptoms may include the following:

watering redness

## **B.** Health hazards

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
tranium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	12.3 mg/l	4 hours
• •	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	_
Isopropyl alcohol	LC50 Inhalation Vapour	Rat	72600 mg/m <sup>3</sup>	4 hours
,	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
4-hydroxy-4-methylpentan-2-one	LD50 Dermal	Rabbit	13500 mg/kg	-
3, 3,	LD50 Oral	Rat	3002 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
,	LD50 Oral	Rat	1716 mg/kg	-
aluminium hydroxide	LC50 Inhalation Dusts and	Rat	>5.09 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2,2'-iminodiethylamine	LC50 Inhalation Dusts and	Rat	0.07 to 0.3 mg/l	4 hours
-	mists			
	LD50 Dermal	Rabbit	1090 mg/kg	-
	LD50 Oral	Rat	1080 mg/kg	-

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

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

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.

## **Sensitisation**

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# **Section 11. Toxicological information**

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	skin	Mouse	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising

**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
<b>X</b> ylene	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
Toluene	Category 3	-	Narcotic effects
Isopropyl alcohol	Category 3	-	Narcotic effects
4-hydroxy-4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
2,2'-iminodiethylamine	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Kylene	Category 1		central nervous system (CNS), kidneys, liver
Toluene	Category 2	-	-

### **Aspiration hazard**

Name	Result
Isopropyl alcohol	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

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# **Section 11. Toxicological information**

#### Potential chronic health effects

**General**: May cause 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**: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : Suspected of damaging fertility or the unborn child.

## **Additional information**

Causes digestive tract burns. 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 vapour/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	Common name	CAS no.	GHS Classification
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	CARCINOGENICITY - Category 2
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	POLYAMIDE RESIN	CAS: 68410-23-1	SKIN CORROSION/IRRITATION - Category 2
poryettrylerieporyamines			SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Xylene	XYLENES	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
		1000-20-1	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
Mica-group minerals	MICA	CAS: 12001-26-2	Not classified.
4-methylpentan-2-one	4-METHYLPENTAN- 2-ONE / METHYL ISOBUTYL KETONE	CAS: 108-10-1	FLAMMABLE LIQUIDS - Category 2
			ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract

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Product code 00338218

# Section 11. Toxicological information

		ı	trritation) Catagory 2
Toluene	TOLUENE	CAS:	rritation) - Category 3 FLAMMABLE LIQUIDS - Category 2
Toluene	TOLUENE	108-88-3	FLAMMABLE LIQUIDS - Category 2
		100-00-3	SKIN CORROSION/IRRITATION -
			Category 2
			REPRODUCTIVE TOXICITY - Category 2
			SPECIFIC TARGET ORGAN TOXICITY -
			SINGLE EXPOSURE (Narcotic effects) -
			Category 3
			SPECIFIC TARGET ORGAN TOXICITY -
			REPEATED EXPOSURE - Category 2
			ASPIRATION HAZARD - Category 1
Isopropyl alcohol	ISOPROPYL ALCOHOL	CAS:	FLAMMABLE LIQUIDS - Category 2
' ',		67-63-0	3 ,
		0. 00 0	SERIOUS EYE DAMAGE/EYE IRRITATION
			- Category 2
			SPECIFIC TARGET ORGAN TOXICITY -
			SINGLE EXPOSURE (Narcotic effects) -
			Category 3
A local manual A so that I also	4 LIVEDROVV	040	ASPIRATION HAZARD - Category 2
4-hydroxy-4-methylpentan-	4-HYDROXY-	CAS:	FLAMMABLE LIQUIDS - Category 3
2-one	4-METHYLPENTAN-	123-42-2	
	2-ONE / DIACETONE		
	ALCOHOL		
			SERIOUS EYE DAMAGE/EYE IRRITATION
			- Category 2
			REPRODUCTIVE TOXICITY - Category 2
			SPECIFIC TARGET ORGAN TOXICITY -
			SINGLE EXPOSURE (Respiratory tract
			irritation) - Category 3
3,6-diazaoctanethylenediamin	TRIETHYLENETETRAMINE	CAS:	CORROSIVE TO METALS - Category 1
		112-24-3	out to one in a man table outlagery i
			ACUTE TOXICITY (oral) - Category 4
			ACUTE TOXICITY (dermal) - Category 4
			SKIN CORROSION/IRRITATION -
			Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION
			- Category 1
			SKIN SENSITISATION - Category 1
			LONG-TERM (CHRONIC) AQUATIC
1			HAZARD - Category 3
aluminium hydroxide	ALUMINUM HYDROXIDE	CAS:	Not classified.
		21645-51-2	
ethylbenzene	ETHYLBENZENE	CAS:	FLAMMABLE LIQUIDS - Category 2
		100-41-4	
			ACUTE TOXICITY (inhalation) - Category 4
			CARCINOGENICITY - Category 2
			ASPIRATION HAZARD - Category 1
crystalline silica, respirable	QUARTZ (<10 microns)	CAS:	CARCINOGENICITY - Category 1A
powder (<10 microns)		14808-60-7	January Calculation Calculation (Calculation)
2,2'-iminodiethylamine	DIETHYLENETRIAMINE	CAS:	CORROSIVE TO METALS - Category 1
		111-40-0	or a court is mentioned outlogory in
			ACUTE TOXICITY (oral) - Category 4
			ACUTE TOXICITY (dermal) - Category 4
			ACUTE TOXICITY (inhalation) - Category 2
			13312 13/13/11 (Illinalation) - Sategory 2
I	I	<u> </u>	<u> </u>

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# 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
Fatty acids, C18-unsatd.,	EC50 4.11 mg/l Fresh water	Algae	72 hours
dimers, reaction products with polyethylenepolyamines			
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
4-hydroxy-4-methylpentan-	Acute LC50 >100 mg/l	Fish	96 hours
2-one			
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
2,2'-iminodiethylamine	Acute LC50 430 mg/l	Fish	96 hours

## B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines		15 % - 28 days	-	-
4-methylpentan-2-one 4-hydroxy-4-methylpentan- 2-one	OECD 301F	83 % - Readily - 28 days 98.5 % - Readily - 28 days	-	-
2,2'-iminodiethylamine	-	87 % - Readily - 21 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
atty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	-	-	Not readily
Xylene	-	-	Readily
4-methylpentan-2-one	-	-	Readily
Toluene	-	-	Readily
4-hydroxy-4-methylpentan-	-	-	Readily
2-one			
ethylbenzene	-	-	Readily
2,2'-iminodiethylamine	-	-	Readily

## C. Bioaccumulative potential

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**Product name PITT-GUARD DTR WHITE BASE COMP A** 

# **Section 12. Ecological information**

Product/ingredient name	LogPow	BCF	Potential
✓ylene	3.12	7.4 to 18.5	low
4-methylpentan-2-one	1.9	-	low
Toluene	2.73	8.32	low
Isopropyl alcohol	0.05	-	low
4-hydroxy-4-methylpentan-	-0.14 to 1.03	-	low
2-one			
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	low
ethylbenzene	3.6	79.43	low
2,2 -iminodiethylamine	-5.58	4.47	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 minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	UN	IMDG	IATA
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	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 Not applicable. (Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines) 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:

titanium dioxide

Xylene

Mica-group minerals

4-methylpentan-2-one

Toluene

Isopropyl alcohol

4-hydroxy-4-methylpentan-2-one

aluminium hydroxide

ethylbenzene

crystalline silica, respirable powder (<10 microns)

2,2'-iminodiethylamine

ISHA Enforcement Regs : The following components are listed: toluene

Annex 19 (Exposure standards established for harmful factors)

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## Section 15. Regulatory information

**ISHA Enforcement Regs** Annex 11-5 (Harmful factors subject to Work

: The following components are listed: titanium dioxide, xylene, mica, methyl isobutyl ketone, toluene, isopropyl alcohol, aluminum and its compounds, ethyl benzene

**Environment Measurement)** 

up)

**ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-** The following components are listed: Xylene, Methyl isobutyl ketone, Toluene, Isopropyl alcohol, Aluminum and its compounds, Ethyl benzene

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

: The following components are listed: titanium dioxide, xylene, methyl isobutyl ketone, toluene, isopropyl alcohol, aluminum and its compounds, ethyl benzene

## B. Regulation according to Chemicals Control Act

**CCA Article 11 (TRI)** 

: The following components are listed: Xylene including o-,m-,p- isomer, Toluene, 2-Propanol, Aluminium and its compounds, Ethylbenzene

CCA Article 18 **Prohibited (K-Reach** Article 27)

: None of the components are listed.

**CCA Article 19 Subject** to authorization (K-

: None of the components are listed.

: None of the components are listed.

Reach Article 25) **CCA Article 20** 

**Restricted (K-Reach** 

Article 27)

**CCA Article 20 Toxic Chemicals (K-Reach** 

Article 20)

: Not applicable

**Korea inventory** : All components are listed or exempted. **CCA Article 39** (Accident Precaution

**Chemicals**)

: None of the components are listed.

C. <u>Dangerous Materials</u> Safety Management Act : Class: Class 4 - Flammable Liquid

Item: 2. Class 1 petroleums - Water-insoluble liquid Threshold: 200 L

Danger category: II

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).

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**Product name PITT-GUARD DTR WHITE BASE COMP A** 

## 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

: 5/18/2021

C. Version : 4
Prepared by : EHS

D. Other

**▼** Indicates information that has changed from previously issued version.

### **Disclaimer**

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

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