# **SAFETY DATA SHEET**



Date of issue 1/15/2020 (month/day/year)

Version 11.02

### Section 1. Chemical product and company identification

Α.	Product name Product code	: THINNER 91-82 (AMERCOAT T-10 THINNER) : 00281548	

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. Paint. Painting-related materials.		
Uses advised against	: Product is not intended, labelled or packaged for consumer use.		
C. Supplier'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 ACUTE TOXICITY (dermal) - Category 4
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), kidneys, liver) - Category 1
	ASPIRATION 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 Symbol	including precautionary statements		
Signal word	: Danger		
		Korea (GHS)	Page: 1/15

Date of issue 1/15/2020 (month/day/year)

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

### Section 2. Hazards identification

Hazard statements	: H226 - Flammable liquid and vapor.
	H312 + H332 - Harmful in contact with skin or if inhaled.
	H318 - Causes serious eye damage.
	H315 - Causes skin irritation.
	H351 - Suspected of causing cancer. H305 - May be harmful if swallowed and enters airways.
	H335 - May cause respiratory irritation.
	H336 - May cause drowsiness or dizziness.
	H372 - Causes damage to organs through prolonged or repeated exposure. (central
	nervous system (CNS), kidneys, liver)
Precautionary statements	5 (- ), 5, 1
Prevention	: P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing
	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking.
	P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling
	equipment.
	P242 - Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P233 - Keep container tightly closed.
	P271 - Use only outdoors or in a well-ventilated area.
	P260 - Do not breathe vapor.
	P270 - Do not eat, drink or smoke when using this product.
	P264 - Wash hands thoroughly after handling.
	P240 - Ground/bond container and receiving equipment.
Response	: 🗗 314 - Get medical attention if you feel unwell.
	P308 + P313 - IF exposed or concerned: Get medical attention.
	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep
	comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
	P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or
	physician. Do NOT induce vomiting.
	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water or shower.
	P302 + P352 + P312 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off
	contaminated clothing and wash it before reuse.
	P332 + P313 - If skin irritation occurs: Get medical 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 physician.
Storage	: P405 - Store locked up.
otoraye	P403 - Store in a well-ventilated place.
	P233 - Keep container tightly closed.
	P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional,
Dispusai	national and international regulations.
Other herende which de	. Drolonged or repeated contect may dry chip and course initation
Other hazards which do	: Prolonged or repeated contact may dry skin and cause irritation.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

### Section 3. Composition/information on ingredients

#### **CAS number/other identifiers**

#### **CAS** number

: Not applicable.

Chemical name	Common name	Identifiers	%
₽-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	30 - <40
Xylene	Xylene	CAS: 1330-20-7	30 - <40
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL	CAS: 108-10-1	10 -<20
	ISOBUTYL KETONE		
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	5 - <10
Toluene	Toluene	CAS: 108-88-3	0.1 - <1
Benzene	Benzene	CAS: 71-43-2	<0.1

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

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

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

Α.	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.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	1	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

### Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	Unsuitable extinguishing media	1	Do not use water jet.
в.	Specific hazards arising from the chemical	:	Fammable 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.
	Hazardous thermal decomposition products	1	Decomposition products may include the following materials: carbon oxides
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Fire-fighting procedures	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

# Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		
B. Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		
C. Methods and materials for c	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 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.		

Date of issue 1/15/2020 (month/day/year)

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

### Section 7. Handling and storage

Α.	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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 grounding 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 a coordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

Ingredient name	Exposure limits
2-methylpropan-1-ol	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	TWA: 50 ppm 8 hours.
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
4-methylpentan-2-one	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 75 ppm 15 minutes.
- 41 41	TWA: 50 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 125 ppm 15 minutes.
Toluene	TWA: 100 ppm 8 hours.
loiuene	Ministry of Employment and Labor
	(Republic of Korea, 7/2018). STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Benzene	Ministry of Employment and Labor
Delizene	(Republic of Korea, 7/2018). Absorbed
	through skin.
	TWA: 0.5 ppm 8 hours.
	STEL: 2.5 ppm 15 minutes.
	Korea (GHS) Page: 5/1

#### Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

# Section 8. Exposure controls/personal protection

		_	
	Recommended monitoring procedures	:	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.
В.	Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
	Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
с.	Personal protective equip	me	ent
	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	1	Chemical splash goggles and face shield.
	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. For prolonged or repeated handling, use the following type of gloves:
	Gioves		May be used: nitrile rubber Recommended: polyvinyl alcohol (PVA), butyl rubber, Viton®
	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.

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

### Section 9. Physical and chemical properties

Α.	Appearance		
	Physical state	:	Liquid.
	Color	:	Colorless.
В.	Odor	:	Characteristic.
С.	Odor threshold	:	Not available.
D.	рН	:	Not available.
Ε.	Melting/freezing point	:	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
G.	Flash point	:	Closed cup: 26°C (78.8°F)
н.	Evaporation rate	:	Not available.
Ι.	Flammability (solid, gas)	:	Not available.
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)
Κ.	Vapor pressure	:	Not available.
L.	Solubility	:	Insoluble in the following materials: cold water.
Μ.	Vapor density	:	Not available.
Ν.	Relative density	:	0.83
О.	Partition coefficient: n- octanol/water	:	Not available.
Ρ.	Auto-ignition temperature	:	Not available.
Q.	Decomposition temperature	:	Not available.
R.	Viscosity	:	Kinematic (40°C (104°F)): <0.14 cm²/s (<14 cSt)
S.	Molecular weight	:	Not applicable.

# Section 10. Stability and reactivity

A. Chemical stab Possibility of t reactions	· ·	oduct is stable. normal conditions of storage and use, hazardous reactions will not occur.
B. Conditions to	avoid : When produc	exposed to high temperatures may produce hazardous decomposition cts.
C. Incompatible n	•	away from the following materials to prevent strong exothermic reactions: ng agents, strong alkalis, strong acids.
D. Hazardous decompositior	•	ding on conditions, decomposition products may include the following als: carbon oxides

Date of issue 1/15/2020 (month/day/year)

Version 11.02

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

### Section 11. Toxicological information

Α.	Information on the likely routes of exposure	: Not available.			
Potential acute health effects					
	Inhalation :	✓armful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.			
	Ingestion :	Zan cause central nervous system (CNS) depression. May be harmful if swallowed and enters airways.			
	Skin contact :	Farmful in contact with skin. Causes skin irritation. Defatting to the skin.			
	Eye contact :	🖉auses serious eye damage.			
<u>0</u>	<u>ver-exposure signs/symp</u>	<u>otoms</u>			
	Inhalation :	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness			
	Ingestion :	Adverse symptoms may include the following: stomach pains nausea or vomiting			
	Skin contact :	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur			
	Eye contact :	Adverse symptoms may include the following: pain watering redness			

#### B. Health hazards

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Oral	Rat	2.08 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
Benzene	LD50 Oral	Rat	930 mg/kg	-

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

Korea (GHS) Page: 8/15

Date of issue 1/15/2020 (month/day/year)

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

# Section 11. Toxicological information

### Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
Xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary		l	4			•
Skin	: T	here are no data available o	n the mixture it	self.		
Eyes	: T	here are no data available o	n the mixture it	self.		
Respiratory	: Т	here are no data available o	n the mixture it	self.		
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory	• • • •	ere are no data available on ere are no data available on				
<u>Mutagenicity</u> Conclusion/Summary	: Th	nere are no data available or	n the mixture its	self.		
<u>Carcinogenicity</u> Conclusion/Summary	: T	here are no data available oi	n the mixture its	self.		
Reproductive toxicity Conclusion/Summary	: Т	here are no data available o	n the mixture it	self.		
<u>Teratogenicity</u> Conclusion/Summary	: т	here are no data available o	n the mixture it	self.		

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

Name	Classification	Route of exposure	Target organs
2-methylpropan-1-ol	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract
Xylene 4-methylpentan-2-one	Category 3 Category 3	Not applicable. Not applicable.	irritation Narcotic effects Respiratory tract
Toluene	Category 3	Not applicable.	irritation Narcotic effects

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

Name	Classification	Route of exposure	Target organs
<b>⊠</b> ylene	Category 1		central nervous system (CNS), kidneys and liver
Toluene Benzene	j j =		Not determined Not determined

#### **Aspiration hazard**

Korea (GHS)	Page: 9/15
-------------	------------

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

### Section 11. Toxicological information

Name	Result
₽-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
ethylbenzene	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Benzene	ASPIRATION HAZARD - Category 1

#### Potential chronic health effects

General	$\mathcal{C}$ auses damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.		
Carcinogenicity Mutagenicity	<ul> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> <li>No known significant effects or critical hazards.</li> </ul>		
Teratogenicity	: No known significant effects or critical hazards.		
Developmental effects	: No known significant effects or critical hazards.		
Fertility effects	: No known significant effects or critical hazards.		

#### Additional information

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. Wash thoroughly after handling. Emits toxic fumes when heated.

Chemical name	Common name	CAS #	GHS Classification
₽-methylpropan-1-ol	ISOBUTYL ALCOHOL	78-83-1	FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2
Xylene	Xylene	1330-20-7	FLAMMABLE LIQUIDS - Category 3 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) (central nervous
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	108-10-1	system (CNS), kidneys, liver) - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4
			Korea (GHS) Page: 10/15

Product code 0	0281548
----------------	---------

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

# Section 11. Toxicological information

			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
			CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
			irritation) - Category 3
ethylbenzene	ETHYLBENZENE	100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
Toluene	Toluene	108-88-3	FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2
Benzene	Benzene	71-43-2	2 TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 GERM CELL MUTAGENICITY - Category 1E CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3

# Section 12. Ecological information

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
P-methylpropan-1-ol ethylbenzene	Acute EC50 1100 mg/l Acute LC50 150 to 200 mg/l Fresh water	Daphnia Fish	48 hours 96 hours

#### B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene	-	-	Readily
ethylbenzene	-	-	Readily
Toluene	-	-	Readily

#### C. Bioaccumulative potential

Korea (GHS) Page: 11/1	Korea	(GHS)	Page:	11/15
------------------------	-------	-------	-------	-------

Date of issue 1/15/2020 (month/day/year)

Version 11.02

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

# Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential	
2-methylpropan-1-ol	0.76	-	low	
Xylene	3.16	7.4 to 18.5	low	
4-methylpentan-2-one	1.31	-	low	
ethylbenzene	3.15	79.43	low	
Toluene	2.73	8.32	low	
Benzene	2.13	4.27	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.

# Section 13. Disposal considerations

#### A. Disposal methods The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	UN	IMDG	IATA	
A. UN number	UN1263	UN1263	UN1263	
B. UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	
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

Korea (GHS) Page: 12/15

Date of issue 1/15/2020 (month/day/year)

Product name THINNER 91-82 (AMERCOAT T-10 THINNER)

### Section 14. Transport information

UN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

: None identified.

#### F. Special precaution which a user to be aware of or needs to comply with in connection with transport or tranportation

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.

S	Section 15. Regulatory information				
Α.	Regulation according to IS	SH	<u>A</u>		
	ISHA article 37 (Harmful substances prohibited from manufacture)	:	None of the components are listed.		
	ISHA article 38 (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 Chemi	ca	I Substances and Physical Factors		
The following components P-methylpropan-1-ol Xylene 4-methylpentan-2-one ethylbenzene Toluene Benzene		i ha	ιve an OEL:		
	ISHA Enforcement Regs Annex 11-3 (Exposure standards established for harmful factors)	:	The following components are listed: Benzene		
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: Xylene, o,m,p-isomers Preparations containing material at weight ratio of 1% or more, Ethylbenzene Preparations containing material at weight ratio of 1% or more, Isobutyl alcohol Preparations containing material at weight ratio of 1% or more, Methyl isobutyl ketone Preparations containing material at weight ratio of 1% or more		
	ISHA Enforcement Regs Annex 12-2 (Harmful Factors Subject to Special Health Check-up)	:	The following components are listed: Xylene, Ethylbenzene, Isobutyl alcohol, Methyl isobutyl ketone		
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, ethyl benzene, isobutyl alcohol, methyl isobutyl ketone		

#### B. Regulation according to Chemicals Control Act

Version 11.02

# Section 15. Regulatory information

	CCA Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	CCA Article 18 Prohibited (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 20 Restricted (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 11 (TRI)	1	The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene
	Korea inventory	1	All components are listed or exempted.
	CCA Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.
C.	<u>Dangerous Materials</u> <u>Safety Management Act</u>	:	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.
Е.	Regulation according to o	th	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

A. References	<ul> <li>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.</li> </ul>
B. Date of issue/Date of	: 1/15/2020

revision C. Version : 11.02 Prepared by : EHS

Prepared by D. Other

#### Procedure used to derive the classification

Classification		Justification	
Flam. Liq. 3, H226	On basis of test data		
Acute Tox. 4, H312	Calculation method		
Acute Tox. 4, H332	Calculation method		
Skin Irrit. 2, H315	Calculation method		
Eye Dam. 1, H318	Calculation method		
Carc. 2, H351	Calculation method		
STOT SE 3, H335	Calculation method		
STOT SE 3, H336	Calculation method		
STOT RE 1, H372 (central nervous system (CNS), kidneys,	Calculation method		
		Korea (GHS)	Page: 14/15

Product code 00281548	Date of issue 1/15/2020 (month/day/year)	Version 11.02
Product name THINNER 91-82 (AMERCOAT T-10 THINNER) Section 16. Other information		

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.