SAFETY DATA SHEET



Date of issue/Date of revision17 November 2015Version 5

Section 1. Identification	
Product name	: ORANGE PRIMER/TPCT SPECTR
Product code	: W29498C
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Industrial applications.
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.
Uses advised against	: Not applicable.
Supplier	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)
Technical Phone Number	: (414) 764-6000 (OAK CREEK, WI) 8:00 a.m 5:00 p.m. Central

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 1A
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 67.4%
GHS label elements Hazard pictograms	
nazaru pictograms	
Signal word	: Danger

Product name ORANGE PRIMER/TPCT SPECTR

Section 2. Hazards identification

Hazard statements	: Flammable liquid and vapor. Harmful if inhaled. May cause cancer.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor.
Response	: IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: 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. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product name

: ORANGE PRIMER/TPCT SPECTR

% **CAS number Ingredient name** barium sulfate ≥25 - <50 7727-43-7 heptan-2-one ≥9 - <16 110-43-0 ethanol ≥0.1 - <4.8 64-17-5 n-butyl acetate ≥0.1 - <9 123-86-4 Solvent naphtha (petroleum), light aromatic ≥1 - <7 64742-95-6 4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2- 20.1 - <25 15793-73-4 (p-tolyl)-3H-pyrazol-3-one] (ethyl 3-oxobutyrato-O1',O3)bis(propan-2-olato)aluminium ≥0.1 - <2 14782-75-3 1,2,4-trimethylbenzene ≥1.4 - <1.7 95-63-6 Isopropyl alcohol ≥1 - <1.3 67-63-0 4-methylpentan-2-one ≥0.1 - <1 108-10-1 titanium dioxide ≥0.1 - <25 13463-67-7 **United States** Page: 2/16

Product name ORANGE PRIMER/TPCT SPECTR

Section 3. Composition/information on ingredients

2-butanone oxime	≥0.1 - <1	96-29-7	
ethylbenzene	≥0.1 - <1	100-41-4	

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

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.
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.
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.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact :	No known significant effects or critical hazards.
Inhalation :	Harmful if inhaled.
Skin contact :	Defatting to the skin. May cause skin dryness and irritation.
Ingestion :	No known significant effects or critical hazards.
Over-exposure signs/symptor	<u>ns</u>
Eye contact :	No specific data.
Inhalation :	No specific data.
Skin contact :	Adverse symptoms may include the following: irritation dryness cracking
Ingestion :	No specific data.
Indication of immediate medica	al attention and special treatment needed, if necessary
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.

Product name ORANGE PRIMER/TPCT SPECTR

Section 4. First aid measures

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

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. 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 dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	: 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.	

Product name ORANGE PRIMER/TPCT SPECTR

Section 6. Accidental release measures

For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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).
Methods and materials for co	<u>nt</u>	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

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Precautions for safe handling	
Protective measures	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. 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.
Special precautions	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

United States Page: 5/16

Product name ORANGE PRIMER/TPCT SPECTR

Section 7. Handling and storage

Advice on general occupational hygiene	: 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. See also Section 8 for additional information on hygiene
Conditions for safe storage, including any	 measures. Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container
incompatibilities	protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
barium sulfate	ACGIH TLV (United States, 4/2014).
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
eptan-2-one	ACGIH TLV (United States, 4/2014).
	TWA: 233 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 465 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
thanol	ACGIH TLV (United States, 4/2014).
	STEL: 1000 ppm 15 minutes.
	OSHA PEL (United States, 2/2013).
	TWA: 1900 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
-butyl acetate	ACGIH TLV (United States, 4/2014).
-buly acetale	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 710 mg/m ³ 8 hours.
alvant nanhtha (natrolaum), light aramatia	TWA: 150 ppm 8 hours. None.
olvent naphtha (petroleum), light aromatic	
,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-	None.
-methyl-2-(p-tolyl)-3H-pyrazol-3-one]	ACCILL TL V (United States 4/2014)
ethyl 3-oxobutyrato-O1',O3)bis(propan-2-olato)aluminium	ACGIH TLV (United States, 4/2014).
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
,2,4-trimethylbenzene	ACGIH TLV (United States, 4/2014).
	United States Page: 6/16

Product name ORANGE PRIMER/TPCT SPECTR

Section 8. Exposure controls/personal protection

	TWA: 123 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
Isopropyl alcohol	ACGIH TLV (United States, 4/2014).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 980 mg/m ³ 8 hours.
	TWA: 400 ppm 8 hours.
4-methylpentan-2-one	ACGIH TLV (United States, 4/2014).
	STEL: 75 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 410 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
titanium dioxide	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 4/2014).
	TWA: 10 mg/m ³ 8 hours.
2-butanone oxime	IPEL (PPG).
	TWA: 3 ppm
	STEL: 9 ppm
ethylbenzene	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.

	Key to abbreviations						
Α	 Acceptable Maximum Peak 	S	 Potential skin absorption 				
ACGIH	 American Conference of Governmental Industrial Hygienists. 	SR	 Respiratory sensitization 				
С	= Ceiling Limit	SS	 Skin sensitization 				
F	= Fume	STEL	 Short term Exposure limit values 				
IPEL	 Internal Permissible Exposure Limit 	TD	= Total dust				
OSHA	 Occupational Safety and Health Administration. 	TLV	= Threshold Limit Value				
R	= Respirable	TWA	 Time Weighted Average 				
Z	= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances						

Consult local authorities for acceptable exposure limits.

	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.
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.
	United States Page: 7/16

Product name ORANGE PRIMER/TPCT SPECTR

Section 8. Exposure controls/personal protection

Individual protection measures

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.
Eye/face protection Skin 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: polyvinyl alcohol (PVA), Viton®, butyl rubber 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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 26.67°C (80°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.

Product name ORANGE PRIMER/TPCT SPECTR

Section 9. Physical and chemical properties

Flammability (solid, gas)	t available.	
Lower and upper explosive (flammable) limits	wer: 1.3%	
Evaporation rate	9 (butyl acetate = 1)
Vapor pressure) kPa (21.6 mm Hg)	[room temperature]
Vapor density	t available.	
Relative density	14	
Density(lbs / gal)	.02	
Solubility	oluble in the followi	ng materials: cold water.
Partition coefficient: n- octanol/water	t available.	
Viscosity	nematic (40°C (104°	°F)): >0.21 cm²/s (>21 cSt)
Volatility	% (v/v), 26.8% (w/w	()
% Solid. (w/w)	.2	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product name ORANGE PRIMER/TPCT SPECTR

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m³	4 hours
	LD50 Oral	Rat	7 g/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal LD50 Oral	Rabbit	>17600 mg/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rat Rabbit	10.768 g/kg	-
light aromatic	LD50 Dermai	Rabbit	3.48 g/kg	-
light aronatic	LD50 Oral	Rat	8400 mg/kg	_
4,4'-[(3,3'-dichloro[1,1'-	LD50 Oral	Rat	15 g/kg	_
biphenyl]-4,4'-diyl)bis(azo)]bis		T Cat	io gritg	
[2,4-dihydro-5-methyl-2-(p-				
tolyl)-3H-pyrazol-3-one]				
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	4.396 g/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	32772 mg/m ³	4 hours
	LD50 Oral	Rat	2.08 g/kg	-
titanium dioxide	LD50 Oral	Rat	>10 g/kg	-
2-butanone oxime	LD50 Oral LC50 Inhalation Vapor	Rat Rat	930 mg/kg	- 4 hours
ethylbenzene	LD50 Dermal	Rabbit	4000 ppm 17.8 g/kg	4 110015
	LD50 Oral	Rat	3.5 g/kg	-
			0.0 9/109	
Conclusion/Summary	: There are no data available on t	ne mixture itseif.		
Irritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available on t			
Eyes	: There are no data available on t			
Respiratory	: There are no data available on t	he mixture itself.		
<u>Sensitization</u>				
Conclusion/Summary				
Skin	: There are no data available on t	he mixture itself.		
Respiratory	: There are no data available on t	he mixture itself.		
Mutagenicity				
Conclusion/Summary	: There are no data available on t	he mixture itself.		
Carcinogenicity				
Conclusion/Summary	: There are no data available on t	he mixture itself		

Classification

Product name ORANGE PRIMER/TPCT SPECTR

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP	
4,4'-[(3,3'-dichloro[1,1'- biphenyl]-4,4'-diyl)bis(azo)]bis [2,4-dihydro-5-methyl-2-(p- tolyl)-3H-pyrazol-3-one]	-	2A	Known to be a human carcinogen.	
Isopropyl alcohol 4-methylpentan-2-one	-	3 2B	-	
titanium dioxide ethylbenzene	-	2B 2B	-	
Carcinogen Classification c	ode:			
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -				

Reproductive toxicity

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

Teratogenicity

Conclusion/Summary :	There are no data avai	ailable on the mixture itself.
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Specific target organ toxicity (single exposure)

Name	Category
n-butyl acetate	Category 3
Solvent naphtha (petroleum), light aromatic	Category 3
(ethyl 3-oxobutyrato-O1',O3)bis(propan-2-olato)aluminium	Category 3
1,2,4-trimethylbenzene	Category 3
Isopropyl alcohol	Category 3
4-methylpentan-2-one	Category 3

Specific target organ toxicity (repeated exposure)

Name	Category
ethylbenzene	Category 2

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, lungs, the nervous system, the reproductive system, liver, spleen, peripheral nervous system, upper respiratory tract, skin, eye, lens or cornea.

Aspiration hazard

Name	Result	
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.

United States Page: 11/16

Product name ORANGE PRIMER/TPCT SPECTR

Section 11. Toxicological information

Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/sympt	oms		
Eye contact	: No specific data.		
Inhalation	No specific data.		
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking		
Ingestion	: No specific data.		
Delayed and immediate effect	ts and also chronic effects from short and long term exposure		
Conclusion/Summary	: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.		
Short term exposure			
Potential immediate effects	: There are no data available on the mixture itself.		
Potential delayed effects	: There are no data available on the mixture itself.		
Long term exposure			
Potential immediate effects	There are no data available on the mixture itself.		
Potential delayed effects	: There are no data available on the mixture itself.		
Potential chronic health effe	<u>cts</u>		
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.		
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.		
Numerical measures of toxic	<u>ity</u>		
Acute toxicity estimates			
Route	ATE value		

Route	ATE value
Oral	4994.9 mg/kg
Dermal	36860.1 mg/kg
Inhalation (gases)	13256.4 ppm
Inhalation (vapors)	34.27 mg/l
Inhalation (dusts and mists)	4.419 mg/l

United States Page: 12/16

Product name ORANGE PRIMER/TPCT SPECTR

Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide ethylbenzene	5	Daphnia - Daphnia magna Fish - Lepomis macrochirus - Young of the year	48 hours 96 hours

Persistence and degradability

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	1.98	-	low
ethanol	-0.31	-	low
n-butyl acetate	1.78	-	low
1,2,4-trimethylbenzene	3.63	120.23	low
Isopropyl alcohol	0.05	-	low
4-methylpentan-2-one	1.31	-	low
2-butanone oxime	0.63	5.01	low
ethylbenzene	3.15	79.43	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

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. 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.

United States Page: 13/16

Product name ORANGE PRIMER/TPCT SPECTR

Section 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

•			
	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	Ш	Ш	Ш
Environmental hazards	No.	Yes.	No.
Marine pollutant substances	Not applicable.	(trizinc bis(orthophosphate), Solvent naphtha (petroleum), light aromatic)	Not applicable.
Product RQ (lbs)	10141.6	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

Additional information

DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **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.

Section 15. Regulatory information

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United States

United States inventory (TSCA 8b) : All components are listed or exempted.

U.S. Federal regulations

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Product name ORANGE PRIMER/TPCT SPECTR

Section 15. Regulatory information

Classification

: Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
heptan-2-one	Yes.	No.	No.	Yes.	No.
ethanol	Yes.	No.	No.	Yes.	No.
n-butyl acetate	Yes.	No.	No.	Yes.	No.
Solvent naphtha (petroleum), light aromatic	Yes.	No.	No.	Yes.	No.
4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'- diyl)bis(azo)]bis[2,4-dihydro-5-methyl- 2-(p-tolyl)-3H-pyrazol-3-one]	Yes.	No.	No.	No.	Yes.
(ethyl 3-oxobutyrato-O1',O3)bis (propan-2-olato)aluminium	No.	No.	No.	Yes.	No.
1,2,4-trimethylbenzene	Yes.	No.	No.	Yes.	No.
Isopropyl alcohol	Yes.	No.	No.	Yes.	No.
4-methylpentan-2-one	Yes.	No.	No.	Yes.	Yes.
titanium dioxide	No.	No.	No.	No.	Yes.
2-butanone oxime	Yes.	No.	No.	Yes.	Yes.
ethylbenzene	Yes.	No.	No.	Yes.	Yes.

<u>SARA 313</u>

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: trizinc bis(orthophosphate)	7779-90-0	1 - 5
	1,2,4-trimethylbenzene	95-63-6	1 - 5
	Isopropyl alcohol	67-63-0	0.5 - 1.5
	ethylbenzene	100-41-4	0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 * Flammability : 3 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

United States Page: 15/16

Product name ORANGE PRIMER/TPCT SPECTR

Section 16. Other information

National Fire Protection Ass	ociation (U.S.A.)
Health : 2 Flamma	i <mark>bility : 3 Instability :</mark> 0
Date of previous issue	: 6/27/2015
Organization that prepared the MSDS	: EHS
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

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.