SAFETY DATA SHEET



Date of issue/Date of revision 30 March 2016 Version 7

Section 1. Identification	
Product name	: Spectracron 360-Custom Tinted 2K HS Urethane
Product code	: AUE-360M-1
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.
Manufacturer	: 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	: (740) 363-9610 (DELAWARE, OH) 8:00 a.m 5:00 p.m. EST

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 2 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

GHS label elements

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Product name Spectracron 360-Custom Tinted 2K HS Urethane

Section 2. Hazards identification

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Hazard	pictograms
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Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Harmful if inhaled. Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child. May cause drowsiness and dizziness. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. 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. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
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.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture

Product name

: Mixture

: Spectracron 360-Custom Tinted 2K HS Urethane

Ingredient name	%	CAS number
heptan-2-one	≥54 - <71	110-43-0
acetone	≥25 - <37	67-64-1
butanone	≥9 - <25	78-93-3
diiron trioxide	≥0.1 - <25	1309-37-1
2-methoxy-1-methylethyl acetate	≥0.1 - <25	108-65-6
titanium dioxide	≥0.1 - <25	13463-67-7
pentane-2,4-dione	≥1 - <10	123-54-6
n-butyl acetate	≥3 - <25	123-86-4
4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-	≥0.1 - <25	15793-73-4
(p-tolyl)-3H-pyrazol-3-one]		
carbon black, respirable powder	≥0.1 - <25	1333-86-4
Aluminium powder (stabilized)	≥0.1 - <25	7429-90-5
barium sulfate	≥0.1 - <25	7727-43-7
IRGAZIN DPP ORANGE 16A	≥0.1 - <25	84632-59-7
aluminium hydroxide	≥0.1 - <25	21645-51-2
Stoddard solvent	≥1 - <25	8052-41-3
zinc sulphide	≥1 - <25	1314-98-3
pentyl propionate	≥0.1 - <20	624-54-4
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	≥1 - <25	25973-55-1
toluene	≥0.1 - <1	108-88-3
dibutyltin dilaurate	≥0.1 - <1	77-58-7

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.

Section 4. First aid measures

Most important symptoms/e	iffects, acute and delayed
Potential acute health effe	<u>ots</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
<u>Over-exposure signs/symp</u>	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
ndication of immediate me	dical 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.
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)

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Section 5. Fire-fighting measures

: Use dry chemical, CO ₂ , water spray (fog) or foam.
: Do not use water jet.
: Highly 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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
: 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.
: 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.
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 containment and cleaning up

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Section 6. Accidental release measures

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

Precautions for safe handling	2
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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 Advice on general	 Mapors 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. 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. Eating, drinking and smoking should be prohibited in areas where this material is
occupational hygiene	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 measures.
Conditions for safe storage, including any incompatibilities	: 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 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.
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
peptan-2-one	ACGIH TLV (United States, 3/2015).
	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.
acetone	ACGIH TLV (United States, 3/2015).
	STEL: 500 ppm 15 minutes.
	TWA: 250 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 2400 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
butanone	ACGIH TLV (United States, 3/2015).
bulanone	
	STEL: 885 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 590 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 590 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
diiron trioxide	ACGIH TLV (United States, 3/2015).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 2/2013).
	TWA: 10 mg/m ³ 8 hours.
2-methoxy-1-methylethyl acetate	IPEL (PPG, 4/2009).
	TWA: 50 ppm
titanium dioxide	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2015).
	TWA: 10 mg/m ³ 8 hours.
pentane-2,4-dione	ACGIH TLV (United States, 3/2015).
	Absorbed through skin.
	TWA: 25 ppm 8 hours.
n-butyl acetate	ACGIH TLV (United States, 3/2015).
n-bulyi acelale	
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 710 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-	None.
5-methyl-2-(p-tolyl)-3H-pyrazol-3-one]	
carbon black, respirable powder	ACGIH TLV (United States, 3/2015).
	TWA: 3 mg/m ³ 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 2/2013).
	TWA: 3.5 mg/m ³ 8 hours.
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Section 8. Exposure controls/personal protection

	•
aluminium powder (stabilised)	ACGIH TLV (United States, 3/2015).
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m ³ , (as Al) 8 hours. Form:
	Respirable fraction
	TWA: 15 mg/m ³ , (as Al) 8 hours. Form: Total
	dust
barium sulfate	ACGIH TLV (United States, 3/2015).
	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
IRGAZIN DPP ORANGE 16A	ACGIH TLV (United States).
	TWA: 10 mg/m ³ Form: Inhalable
	TWA: 5 mg/m ³ Form: Respirable
	OSHA PEL (United States).
	TWA: 5 mg/m ³ Form: Respirable
	TWA: 15 mg/m ³ Form: Total dust
aluminium hydroxide	ACGIH TLV (United States, 3/2015).
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
	ACGIH TLV (United States).
	TWA: 1 mg/m ³
Stoddard solvent	ACGIH TLV (United States, 3/2015).
	TWA: 525 mg/m ³ 8 hours.
	TWA: 323 mg/m 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 2900 mg/m ³ 8 hours.
	TWA: 2900 mg/m 8 hours.
	None.
zinc sulphide	None.
pentyl propionate 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	None.
toluene	OSHA PEL Z2 (United States, 2/2013).
loideile	
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
dibutyltin dilaurate	ACGIH TLV (United States, 3/2015).
	Absorbed through skin.
	STEL: 0.2 mg/m ³ , (as Sn) 15 minutes.
	TWA: 0.1 mg/m ³ , (as Sn) 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 0.1 mg/m ³ , (as Sn) 8 hours.
	OSHA PEL (United States).
	TWA: 0.1 mg/m³, (as Sn)
	Key to abbreviations
A = Acceptable Maximum Peak	S = Potential skin absorption

ACGIH = American Conference of Governmental Industrial Hygienists.

 Potential skin absorption SR

= Respiratory sensitization

= Skin sensitization

= Threshold Limit Value

= Time Weighted Average

= Total dust

= Short term Exposure limit values

SS

STEL

TD

TLV

TWA

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Section 8. Exposure controls/personal protection

C = Ceili	ng Limit
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- F = Fume
- IPEL = Internal Permissible Exposure Limit
- OSHA = Occupational Safety and Health Administration.
 - R = Respirable Z = OSHA 29 C

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

Consult local authorities for a	aci	, epitable exposure minus.
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.
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.
Individual protection measur	es	
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.
Eye/face protection Skin protection	:	Chemical splash goggles.
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	1	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.
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.

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Section 8. Exposure controls/personal protection

Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

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: -20°C (-4°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.07
Density(Ibs / gal)	: 8.93
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	: 61% (v/v), 53% (w/w)
% Solid. (w/w)	: 46.71

Physical property values shown in this section are calculated averages. For specific product information, contact your PPG Sales Representative.

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.

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Section 10. Stability and reactivity

Section 11 Toxico	logical information
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	20 g/kg	-
	LD50 Oral	Rat	1.8 g/kg	-
butanone	LC50 Inhalation Vapor	Rat	11243 ppm	4 hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
diiron trioxide	LD50 Oral	Rat	10 g/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate			- 5.1.5	
	LD50 Oral	Rat	8532 mg/kg	-
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-
pentane-2,4-dione	LC50 Inhalation Vapor	Rat	1225 ppm	4 hours
,	LD50 Dermal	Rabbit	787.4 mg/kg	-
	LD50 Oral	Rat	55 mg/kg	_
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	_
4,4'-[(3,3'-dichloro[1,1'-	LD50 Oral	Rat	15 g/kg	_
biphenyl]-4,4'-diyl)bis(azo)]bis				
[2,4-dihydro-5-methyl-2-(p-				
tolyl)-3H-pyrazol-3-one]				
carbon black, respirable	LD50 Dermal	Rabbit	>3 g/kg	_
powder		i tubbit	0 9/19	
pondoi	LD50 Oral	Rat	>15400 mg/kg	_
IRGAZIN DPP ORANGE 16A	LD50 Dermal	Rabbit	>2 g/kg	_
	LD50 Dermal	Rat	>2000 mg/kg	_
	LD50 Oral	Rat	>2 g/kg	_
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	_
pentyl propionate	LD50 Dermal	Rabbit	>14 g/kg	_
	LD50 Oral	Rat	>14 g/kg	_
2-(2H-benzotriazol-2-yl)-4,	LD50 Dermal	Rabbit	>2000 mg/kg	_
6-ditertpentylphenol			2000	
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Section 11. Toxicological information

toluene	LD50 Oral LC50 Inha LC50 Inha LD50 Derr	lation Vapo lation Vapo mal		Rat Rat Rat Rabbit	>2000 mg/kg 49 g/m ³ 8000 ppm 8.39 g/kg	- 4 hours 4 hours -
dibutyltin dilaurate	LD50 Oral LD50 Oral			Rat Rat	636 mg/kg 175 mg/kg	-
Conclusion/Summary	There are	e no data a	available on th	ne mixture itself.		
rritation/Corrosion						
Conclusion/Summary						
Skin	There are	e no data a	available on th	ne mixture itself.		
Eyes	There are	e no data a	available on th	ne mixture itself.		
Respiratory	There are	e no data a	available on th	ne mixture itself.		
<u>Sensitization</u>						
Conclusion/Summary						
Skin	There are	e no data a	available on th	ne mixture itself.		
Respiratory	: There are no data available on the mixture itself.					
<u>Autagenicity</u>						
Conclusion/Summary	There are	e no data a	available on th	ne mixture itself.		
Carcinogenicity						
Conclusion/Summary	There are	e no data a	available on th	ne mixture itself.		
<u>Classification</u>						
Product/ingredient name	OSHA	IARC	NTP			
diiron trioxide titanium dioxide 4,4'-[(3,3'-dichloro[1,1'- biphenyl]-4,4'-diyl)bis(azo)]bis [2,4-dihydro-5-methyl-2-(p-	- - -	3 2B 2A	- - Known to be	e a human carcii	nogen.	
tolyl)-3H-pyrazol-3-one] carbon black, respirable powder toluene	-	2B 3	-			

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 available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

Section 11. Toxicological information

Name	Category
acetone	Category 3
butanone	Category 3
n-butyl acetate	Category 3
pentyl propionate	Category 3
toluene	Category 3
dibutyltin dilaurate	Category 1

Specific target organ toxicity (repeated exposure)

Name	Category
Stoddard solvent	Category 1
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	Category 2
toluene	Category 2
dibutyltin dilaurate	Category 1

Target organs

: Contains material which causes damage to the following organs: mucous membranes, brain, , central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, peripheral nervous system, upper respiratory tract, immune system, skin, testes.

Aspiration hazard

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

Information on the likely routes of exposure

Potential acute health effects

<u>r olenilai acule nealli</u>	
Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/	<u>symptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Product name Spectracron 360-Custom Tinted 2K HS Urethane

Section 11. Toxicological information

	ogical information
Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effects	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.
<u>Short term exposure</u>	
	There are no data available on the mixture itself.
· · · · · · · · · · · · · · · · · · ·	There are no data available on the mixture itself.
<u>Long term exposure</u>	
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 effects	<u>s</u>
	Causes 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.
	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity :	No known significant effects or critical hazards.
Teratogenicity :	May damage the unborn child.
Developmental effects :	No known significant effects or critical hazards.
Fertility effects :	May damage fertility.
Numerical measures of toxicity	
Acute toxicity estimates	

Section 11. Toxicological information

Route	ATE value
Oral	2925.3 mg/kg
Dermal	24893.2 mg/kg
Inhalation (gases)	15949.6 ppm
Inhalation (vapors)	27.63 mg/l
Inhalation (dusts and mists)	5.317 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-methoxy-1-methylethyl acetate	Acute LC50 161 mg/l Fresh water	Fish	96 hours
titanium dioxide 2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol	Acute LC50 >100 mg/l Fresh water Acute EC50 >10 mg/l	Daphnia - Daphnia magna Algae	48 hours 72 hours
	Acute LC50 >100 mg/l	Fish - brachydanio rerio	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily
toluene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	1.98	-	low
acetone	-0.24	3	low
butanone	0.29	-	low
2-methoxy-1-methylethyl	0.56	-	low
acetate			
pentane-2,4-dione	0.4	-	low
n-butyl acetate	1.78	-	low
Stoddard solvent	3.16 to 7.06	-	high
toluene	2.73	8.32	low
dibutyltin dilaurate	3.12	-	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.

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	II	II	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	19727.5	Not applicable.	Not applicable.
RQ substances	(acetone, butanone)	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 : None identified.

- IATA : None identified.
- 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.

Listed

Version 7

Product name Spectracron 360-Custom Tinted 2K HS Urethane

Section 15. Regulatory information

United States

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

United States - TSCA 5(a)2 - Proposed significant new use rules:

pentane-2,4-dione

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

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.
acetone	Yes.	No.	No.	Yes.	No.
butanone	Yes.	No.	No.	Yes.	No.
2-methoxy-1-methylethyl acetate	Yes.	No.	No.	No.	No.
titanium dioxide	No.	No.	No.	No.	Yes.
pentane-2,4-dione	Yes.	No.	No.	Yes.	No.
n-butyl acetate	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.
carbon black, respirable powder	Yes.	No.	No.	No.	Yes.
aluminium powder (stabilised)	Yes.	No.	No.	No.	No.
IRGAZIN DPP ORANGE 16A	Yes.	No.	No.	No.	No.
Stoddard solvent	Yes.	No.	No.	Yes.	Yes.
zinc sulphide	No.	No.	No.	Yes.	No.
pentyl propionate	No.	No.	No.	Yes.	No.
2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol	Yes.	No.	No.	No.	Yes.
toluene	Yes.	No.	No.	Yes.	Yes.
dibutyltin dilaurate	No.	No.	No.	Yes.	Yes.

<u>SARA 313</u>

Supplier notification

: Aluminium powder (stabilized) zinc sulphide

Chemical name

CAS numberConcentration7429-90-51 - 51314-98-30.5 - 1.5

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.

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Product name Spectracron 360-Custom Tinted 2K HS Urethane

Section 15. Regulatory information

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 : 3 * 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.

National Fire Protection Association (U.S.A.)

Health : 3 Flamma	ability : 3 Instability : 0
Date of previous issue	: 12/30/2015
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.

<u>Disclaimer</u>

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.