SAFETY DATA SHEET



Date of issue/Date of revision16 April 2016Version 5

Section 1. Identification			
Product name	: CA 8213/F36622 BASE COMPONENT		
Product code	: CA 8213/F36622 BASE COMPONENT		
Other means of identification	: Not available.		
Product type	: Liquid.		
Relevant identified uses o	f the substance or mixture and uses advised against		
Product use	: Industrial applications.		
Use of the substance/ mixture	: Coating.		
Uses advised against	: Not applicable.		
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342		
<u>Emergency telephone</u> <u>number</u>	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)		

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 (oral) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 23.5%
<u>GHS label elements</u> Hazard pictograms	



Section 2. Hazards identification

Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Harmful if swallowed. Causes serious eye irritation. May damage fertility or the unborn child. Suspected of causing 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. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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	4	Mixture
Product name	1	CA 8213/F36622 BASE COMPONENT

Ingredient name	%	CAS number
b utanone	≥10 - ≤16	78-93-3
heptan-2-one	≥10 - ≤14	110-43-0
titanium dioxide	≥10 - ≤20	13463-67-7
1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol, 1,	≥10 - ≤20	69929-19-7
2-ethanediol, hexanedioic acid and 1,6-hexanediol		
pentane-2,4-dione	≥5.0 - ≤7.4	123-54-6
Acetic acid, C8-10-branched alkyl esters, C9-rich	≥1.0 - ≤3.3	108419-33-6
dibutyltin dilaurate	<1.0	77-58-7
toluene	<1.0	108-88-3

SUB codes represent substances without registered CAS Numbers.

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

Product code CA 8213/F36622 BASE COMPONENT Date of issue 16 April 2016

Product name CA 8213/F36622 BASE COMPONENT

Section 3. Composition/information on ingredients

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	<u>s</u>	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	:	Harmful if swallowed.
Over-exposure signs/sympto	on	<u>15</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: irritation 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

Section 4. First aid measures

Indication of immediate med	lica	l attention and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides 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.
For emergency responders	:	If specialized 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	ont	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

 Protective measures Put on appropriate personal protective equipment (see Section 8). 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 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 	Precautions for safe handling	
and can be hazardous. Do not reuse container.	Protective measures :	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 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

Section 7. Handling and storage

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. 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.
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 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. 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		
Jutanone	ACGIH TLV (United States, 3/2015).		
	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/m³ 8 hours.		
	TWA: 200 ppm 8 hours.		
eptan-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.		
tanium 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.		
,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,	None.		
-propanediol, 1,2-ethanediol, hexanedioic acid and 1,6-hexanediol			
entane-2,4-dione	ACGIH TLV (United States, 3/2015).		
	Absorbed through skin.		
	TWA: 25 ppm 8 hours.		
cetic acid, C8-10-branched alkyl esters, C9-rich	None.		
libutyltin dilaurate	ACGIH TLV (United States, 3/2015).		
	Absorbed through skin.		
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Section 8. Exposure controls/personal protection

			EL: 0.2 mg/m³, (as Sn) 15 minutes.	
TWA: 0.1 mg/m³, (as Sn) 8 hours.				
OSHA PEL (United States, 2/2013).				
	TWA: 0.1 mg/m³, (as Sn) 8 hours.			
	OSHA PEL (United States).			
			VA: 0.1 mg/m³, (as Sn)	
toluene			HA PEL Z2 (United States, 2/2013).	
		AM	IP: 500 ppm 10 minutes.	
		CE	IL: 300 ppm	
			VA: 200 ppm 8 hours.	
			GIH TLV (United States, 3/2015).	
		TΜ	VA: 20 ppm 8 hours.	
	Key to abbreviations	_		
A = Acceptable Maximum Pea		S	= Potential skin absorption	
ACGIH = American Conference of (C = Ceiling Limit	Governmental Industrial Hygienists.	SR SS	Respiratory sensitizationSkin sensitization	
F = Fume		STEL	= Short term Exposure limit values	
IPEL = Internal Permissible Expo	sure Limit	TD	= Total dust	
OSHA = Occupational Safety and I		TLV	= Threshold Limit Value	
R = Respirable		TWA	= Time Weighted Average	
	Subpart Z - Toxic and Hazardous Substances			
Consult local authorities for a	cceptable exposure limits.			
Recommended monitoring procedures	the ventilation or other control measured	y may be re sures and/ hould be m suments fo	equired to determine the effectiveness of or the necessity to use respiratory nade to appropriate monitoring standards.	
Appropriate engineering controls	other engineering controls to keep v recommended or statutory limits. T	worker exp	ess enclosures, local exhaust ventilation or oosure to airborne contaminants below any ering controls also need to keep gas, explosive limits. Use explosion-proof	
Environmental exposure controls	they comply with the requirements of	of environn gineering I	uipment should be checked to ensure nental protection legislation. In some modifications to the process equipment ptable levels.	
ndividual protection measure	-			
Hygiene measures	eating, smoking and using the lavat Appropriate techniques should be u	ory and at sed to rem reusing.	nove potentially contaminated clothing. Ensure that eyewash stations and safety	
Eye/face protection Skin protection	: Chemical splash goggles.			

Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: butyl rubber May be used: nitrile rubber, Chloroprene
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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Gray.
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)
Material supports combustion.	: Yes.
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.

Section 9. Physical and chemical propertiesRelative density: 1.31Density (lbs / gal): 10.93

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)
VOC	: 492 g/l

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/ingredient name	Result	Species	Dose	Exposure
butanone	LC50 Inhalation Vapor	Rat	11243 ppm	4 hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	>16.7 mg/l	4 hours
•	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/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	-
dibutyltin dilaurate	LD50 Oral	Rat	175 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	636 mg/kg	-

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Section 11. Toxicological information

Conclusion/Summary	: There a	are no data a	available on the mixture itself.
Irritation/Corrosion			
Conclusion/Summary			
Skin	: There a	are no data a	available on the mixture itself.
Eyes	: There a	are no data a	available on the mixture itself.
Respiratory	: There a	are no data a	available on the mixture itself.
Sensitization			
Conclusion/Summary			
Skin	: There a	are no data a	available on the mixture itself.
Respiratory	: There a	are no data a	available on the mixture itself.
Mutagenicity			
Conclusion/Summary	: There a	are no data a	available on the mixture itself.
Carcinogenicity			
Conclusion/Summary	: There a	are no data a	available on the mixture itself.
Classification			
Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-

Carcinogen Classification code:

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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

toluene

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

3

Specific target organ toxicity (single exposure)

Name	Category
butanone	Category 3
Acetic acid, C8-10-branched alkyl esters, C9-rich	Category 3
dibutyltin dilaurate	Category 1
toluene	Category 3

Specific target organ toxicity (repeated exposure)

Name	Category
dibutyltin dilaurate	Category 1
toluene	Category 2

Target organs

: Contains material which causes damage to the following organs: mucous membranes, brain, .

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

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Section 11. Toxicological information

Aspiration hazard

Name	Result
Acetic acid, C8-10-branched alkyl esters, C9-rich	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

 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 There are no data available on the mixture itself. There are no data available on the mixture itself. 	internation on the interj rea	
Inhalation : No known significant effects or critical hazards. Skin contact : Defatting to the skin. May cause skin dryness and irritation. Ingestion : Harmful if swallowed. Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: irritation 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 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 vapo concentrations in excess of the stated occupational exposure initi may result in adverse health effects such as muccus membrane and respiratory system irritation adverse seffects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatiyen, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause nausea, di nextreme cases in tration and reversible damage, Ingestion may cause nausea, di mextreme cases	Potential acute health effect	:ts
Skin contact : Defatting to the skin. May cause skin dryness and irritation. Ingestion : Harmful if swallowed. Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal maiformations Skin contact : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal maiformations Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal maiformations Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal maiformations Delayed and immediate effects and also chronic effects from short and long ferm exposure Conclusion/Summary : There are no data available on the mixture itself. Exposure to component solvent vapu concentrations in excess of the stated occupational exposure initi may result in advers 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 and also chronic effects of components from short-term and long-term exposure to organic solvent vapors in combination with constant loud nois -term exposure to organic solvent vapors in combination with constant loud nois -term exposure to organic solvent vapors in combination with constant loud nois -term exposure to yoral, inh	Eye contact	: Causes serious eye irritation.
Ingestion : Harmful if swallowed. Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irreduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: irreduced fetal weight increase in fetal deaths skeletal malformations Delayed and immediate offects 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 vaps conscitution 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 versible damage. Ingestion may cause and versible headache, dizzines, fatigue, inscular weaposure by oral, inhalation and dermal routes of exposure and eye contact. Short term exposure Potential immediate : There are no data available on the mixture itself. Potential immediate : There are no data available on the mixture itself. effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.	Inhalation	: No known significant effects or critical hazards.
Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: irritation dryness cracking 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 vapo concentrations in excess of the stated occupational exposure limit may result in adverse effects on the kineys, 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 logics solvent wapors in combination with constant loud noise cance use greater hearing loss than expected from exposure on onse alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrike 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 : There are no data available o	Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Eye contact : Adverse symptoms may include the following: pain or initiation watering redness Inhalation : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: imitation 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 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 vapic concentrations in excess of the stated occupational exposure limit may result in adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extrem ccases, loss of consciousness. Solvents may cause some of the above effects and also chronic uph the skin. There is some evidence that repeated exposure to assee irritation and expesse that exposure to noise alone. If splashed in the eyes, the liquid may cause eirritation and reversible damage. Ingestion may cause some of the above effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and expected from exposure and eye contact. Short term exposure : There are	Ingestion	: Harmful if swallowed.
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effects Potential delayed effects : There are no data available on the mixture itself.		
		: There are no data available on the mixture itself.
United States Page: 11/15	Potential delayed effects	: There are no data available on the mixture itself.
		United States Page: 11/15

Date of issue 16 April 2016

Troduct name CA 6215/F36622 BASE COMPONENT

Section 11. Toxicological information

Long term exposure				
Potential immediate effects	:	There are no data available on the mixte	ure itself.	
Potential delayed effects	:	There are no data available on the mixtu	ure itself.	
Potential chronic health eff	<u>ects</u>			
General	:	Prolonged or repeated contact can defa dermatitis.	at the skin and lead to irritation, cracking and/or	
Carcinogenicity	:	Suspected of causing 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 toxi	<u>city</u>			
Acute toxicity estimates				
Route			ATE value	
Oral Dermal			1663.7 mg/kg 10042.8 mg/kg	

Inhalation (gases)29044.8 ppmInhalation (vapors)24.86 mg/lInhalation (dusts and mists)9.682 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
butanone	0.29	-	low
heptan-2-one	1.98	-	low
pentane-2,4-dione	0.4	-	low
dibutyltin dilaurate	3.12	-	low
toluene	2.73	8.32	low

Mobility in soil

United States Page:

Section 12. Ecological information

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

	DOT	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	111	111	Ш	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (Ibs)	35468.1	Not applicable.	Not applicable.	
RQ substances	(butanone)	Not applicable.	Not applicable.	

14. Transport information

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.
ΙΑΤΑ	: None identified.

14. Transport information

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

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	
butanone	Yes.	No.	No.	Yes.	No.	7
heptan-2-one	Yes.	No.	No.	Yes.	No.	ł
titanium dioxide	No.	No.	No.	No.	Yes.	ł
1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol, 1, 2-ethanediol, hexanedioic acid and 1, 6-hexanediol	Yes.	No.	No.	Yes.	No.	ł
pentane-2,4-dione	Yes.	No.	No.	Yes.	No.	÷
Acetic acid, C8-10-branched alkyl esters, C9-rich	Yes.	No.	No.	Yes.	No.	ł
dibutyltin dilaurate	No.	No.	No.	Yes.	Yes.	÷
toluene	Yes.	No.	No.	Yes.	Yes.	T

California Prop. 65

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

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United States

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 Ass	ociation (U.S.A.)
Health : 3 Flamma	ability : 3 Instability : 0
Date of previous issue	: 2/1/2016
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 = 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.