SAFETY DATA SHEET



Date of issue/Date of revision2 February 2020Version 11

Section 1. Identification	
Product name	: 99GY031 BASE COMPONENT
Product code	: 99GY031 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
Emergency telephone number	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 (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 24% (Oral), 24% (Dermal), 36.8% (Inhalation)

Section 2. Hazards identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

engineering controls (see Section 8).
: Warning
 Flammable liquid and vapor. Harmful if inhaled. Suspected of causing cancer. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. (hearing organs)
: 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.
: 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. Photosensitive agents : In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact. Apply generous quantities of fresh calcium gluconate gel to all areas. Get immediate medical attention.
: Store locked up. Store in a well-ventilated place. Keep cool.
: Dispose of contents and container in accordance with all local, regional, national and international regulations.
: 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.

Product code 99GY031 BASE COMPONENT Product name 99GY031 BASE COMPONENT

FIGUELIAINE 9991031 BASE COMPONENT

Section 2. Hazards identification

Hazards not otherwise classified

: May form explosive peroxides. Hazardous reactions or instability may occur under certain conditions of storage or use. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture Product name : Mixture

: 99GY031 BASE COMPONENT

Ingredient name	%	CAS number	
reptan-2-one	≥20 - ≤42	110-43-0	
ethylbenzene	≥5.0 - ≤10	100-41-4	
titanium dioxide	≥5.0 - ≤10	13463-67-7	
ethyl 3-ethoxypropionate	≥5.0 - ≤10	763-69-9	
Azacyclotridecan-2-one, homopolymer	≥5.0 - ≤10	25038-74-8	
glass, oxide, chemicals	≥1.0 - ≤5.0	65997-17-3	
carbon black, respirable powder	<1.0	1333-86-4	

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. In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
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. Apply generous quantities of fresh calcium gluconate gel to all areas. Get immediate medical attention. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Product name 99GY031 BASE COMPONENT Section 4. First aid measures

Most important symptoms/effects, acute and delayed Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Skin contact : Defatting to the skin. May cause skin dryness and irritation. Indestion : Can cause central nervous system (CNS) depression. Over-exposure signs/symptoms Eye contact : No specific data. Inhalation : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Skin contact : Adverse symptoms may include the following: irritation dryness cracking Ingestion : No specific data. Indication of immediate medical attention and special treatment needed, if necessary : In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician The exposed person may need to be kept under medical surveillance for 48 hours. **Specific treatments** ŝ, No specific treatment. : No action shall be taken involving any personal risk or without suitable training. If it is Protection of first-aiders 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides
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.
Unsuitable extinguishing media	: Do not use water jet.
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
<u>Extinguishing media</u>	

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Section 5. Fire-fighting measures

Special protective actions for fire-fighters	there is a fire. No action shall be taken involving	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, protect	tive 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	ntainment 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

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 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

Section 7. Handling and storage

Special precautions Advice on general occupational hygiene	 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. 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. May form explosive peroxides. Keep away from combustible materials. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). 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 handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before
Conditions for safe storage, including any incompatibilities	 entering eating areas. See also Section 8 for additional information on hygiene measures. Do not store above the following temperature: 50°C (122°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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
peptan-2-one	ACGIH TLV (United States, 3/2019).
	TWA: 233 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 465 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 3/2019).
,	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dus
	ACGIH TLV (United States, 3/2019).
	TWA: 10 mg/m ³ 8 hours.
ethyl 3-ethoxypropionate	IPEL (PPG).
	TWA: 50 ppm
	STEL: 100 ppm
Azacyclotridecan-2-one, homopolymer	None.
glass, oxide, chemicals	ACGIH TLV (United States).
giaco, oxido, onormodio	
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Section 8. Exposure controls/personal protection

ventilation equipment.

Section 6. Exposure controls/person			
	TWA: 1 f/cc Form: Continuous filament glass		
	fibers		
	TWA: 5 mg/m³, (Inhalable) Form:		
	Continuous filament glass fibers		
	TWA: 3 mg/m ³ Form: Respirable		
	TWA: 10 mg/m³ Form: Total dust		
	OSHA PEL (United States).		
	TWA: 15 mg/m³		
	TWA: 5 mg/m ³ Form: Respirable		
	TWA: 15 mg/m ³ Form: Total dust		
	ACGIH TLV (United States, 3/2019).		
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable		
	fraction		
	TWA: 1 f/cc 8 hours. Form: Respirable fibers		
	length greater than 5 uM; aspect ratio equal to		
	or greater than 3:1 as determined by the		
	membrane filter method at 400-450X		
	magnification (4-mm objective) phase contrast		
	illumination.		
carbon black, respirable powder	ACGIH TLV (United States, 3/2019).		
	TWA: 3 mg/m ³ 8 hours. Form: Inhalable		
	fraction		
	OSHA PEL (United States, 5/2018).		
	TWA: 3.5 mg/m ³ 8 hours.		
Key to abbrev			
A = Acceptable Maximum Peak	S = Potential skin absorption		
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization		
C = Ceiling Limit	SS = Skin sensitization STEL = Short term Exposure limit values		
F = Fume IPEL = Internal Permissible Exposure Limit	STEL = Short term Exposure limit values TD = Total dust		
	TLV = Threshold Limit Value		
OSHA = Occupational Safety and Health Administration. R = Respirable	TWA = Time Weighted Average		
Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Sub	6 6		
·	Stances		
consult local authorities for acceptable exposure limits.			
Recommended monitoring : If this product contains ingre	dients with exposure limits, personal, workplace		
	pnitoring may be required to determine the effectiveness of		
	ol measures and/or the necessity to use respiratory		
	rence should be made to appropriate monitoring standards.		
	nce documents for methods for the determination of		
hazardous substances will a			
Tiazardous substances will a	iso be required.		
ppropriate engineering : Use only with adequate vent	ilation. Use process enclosures, local exhaust ventilation o		
	ilation. Use process enclosures, local exhaust ventilation of b keep worker exposure to airborne contaminants below any		
ontrols other engineering controls to			

Environmental exposure controls

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vapor or dust concentrations below any lower explosive limits. Use explosion-proof

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some

will be necessary to reduce emissions to acceptable levels.

cases, fume scrubbers, filters or engineering modifications to the process equipment

Individual protection measures

Product name 99GY031 BASE COMPONENT

Section 8. Exposure controls/personal protection

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	: Safety glasses with side shields.
Skin 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	: polyethylene
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

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Vapor density	1	Not available.		
Vapor pressure	:	Not available.		
Evaporation rate	1	Not available.		
Lower and upper explosive (flammable) limits	1	Not available.		
Flammability (solid, gas)	1	Not available.		
Decomposition temperature	1	Not available.		
Auto-ignition temperature	1	Not available.		
Flash point	1	Closed cup: 26.11°C (79°F)		
Boiling point	1	>37.78°C (>100°F)		
Melting point	1	Not available.		
pH	:	Not available.		
Odor threshold	:	Not available.		
Odor	:	Not available.		
Color		Gray.		
Physical state		Liquid.		

Section 9. Physical and chemical properties

Relative density	: 1.11
Density(Ibs / gal)	: 9.26
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	: 453 g/l
% Solid. (w/w)	: 58.05

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
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	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	10 g/kg	-
5 51 1	LD50 Oral	Rat	3200 mg/kg	-
carbon black, respirable	LD50 Dermal	Rabbit	>3 g/kg	-
powder				
	LD50 Oral	Rat	>15400 mg/kg	-

United States Page: 9/16 Product name 99GY031 BASE COMPONENT

Section 11. Toxicological information

Conclusion/Summary	1	There are	e no data av	ailable on the mixture itself.
Irritation/Corrosion				
Conclusion/Summary				
Skin	1	There are	e no data av	ailable on the mixture itself.
Eyes	1	There are	e no data av	ailable on the mixture itself.
Respiratory	1	There are	e no data av	ailable on the mixture itself.
Sensitization				
Conclusion/Summary				
Skin	1	There are	e no data av	ailable on the mixture itself.
Respiratory	1	There are	e no data av	ailable on the mixture itself.
Mutagenicity				
Conclusion/Summary	:	There are	e no data av	ailable on the mixture itself.
Carcinogenicity				
Conclusion/Summary	1	There are	e no data av	ailable on the mixture itself.
Classification				
Product/ingredient name		OSHA	IARC	NTP

Product/ingredient name	OSHA	IARC	NTP
ethylbenzene	-	2B	-
titanium dioxide	-	2B	-
glass, oxide, chemicals	-	3	-
carbon black, respirable	-	2B	-
powder			

Carcinogen Classification code:

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.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
heptan-2-one Azacyclotridecan-2-one, homopolymer	• •		Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	hearing organs

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Section 11. Toxicological information

Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: liver, peripheral

nervous system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

Information on the likely routes of exposure Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : Harmful if inhaled. Can cause central nervous a drowsiness or dizziness. Skin contact : Defatting to the skin. May cause skin dryness a lingestion Over-exposure signs/symptoms : Can cause central nervous system (CNS) depred Over-exposure signs/symptoms Eye contact : No specific data. Inhalation : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Skin contact : Adverse symptoms may include the following: irritation dryness cracking Ingestion : No specific data. Delayed and immediate effects and also chronic effects from short and long. Conclusion/Summary : There are no data available on the mixture itself been classified as a GHS Carcinogen Category For many PPG products, TiO2 is utilized as a ra In this case, the TiO2 particles are bound in a n human exposure to unbound particles of TiO2 v or roller. Sanding the coating surface or mist fr depending on the duration and level of exposure personal protective equipment and/or engineeri components of the mixture have irritating properiod protective equipment and/or engineeri components of the mixture have irritating properiod protective equipment and/or engineeri components of the mixture have irritating properiod protective equipment and/or engineeri components of the mixture ha	nd irritation.
Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : Harmful if inhaled. Can cause central nervous a drowsiness or dizziness. Skin contact : Defatting to the skin. May cause skin dryness a drowsiness or dizziness. Ingestion : Can cause central nervous system (CNS) depression Over-exposure signs/symptoms : No specific data. Inhalation : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Skin contact : Adverse symptoms may include the following: irritation dryness cracking Ingestion : No specific data. Delayed and immediate effects and also chronic effects from short and long been classified as a GHS Carcinogen Category For many PPG products, TiO2 is utilized as a ra In this case, the TiO2 particles are bound in a n human exposure to unbound particles of TiO2 vor or roller. Sanding the coating surface or mist for depending on the duration and level of exposure personal protective equipment and/or engineeri components of the mixture have irritating prope	nd irritation.
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Delayed and immediate effects and also chronic effects from short and long Conclusion/Summary : There are no data available on the mixture itself been classified as a GHS Carcinogen Category For many PPG products, TiO2 is utilized as a rail in this case, the TiO2 particles are bound in a mean exposure to unbound particles of TiO2 wor roller. Sanding the coating surface or mist from the duration and level of exposure personal protective equipment and/or engineering components of the mixture have irritating properties.	
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bistering, dermatitis etc. May cause allergic sk The inhalation of airborne droplets or aerosols r tract. Ingestion may cause nausea, weakness a Exposure to component solvent vapor concentr occupational exposure limit may result in advers membrane and respiratory system irritation and and central nervous system. Symptoms and sig muscular weakness, drowsiness and, in extrem Solvents may cause some of the above effects some evidence that repeated exposure to organ	2 based on its IARC 2B classification. w material in a liquid coating formulatio atrix with no meaningful potential for hen the product is applied with a brush m spray applications may be harmful and require the use of appropriate g controls (see Section 8). Acrylate ties. Prolonged or repeated contact ation symptoms, such as redness, n reactions with repeated exposure. ay cause irritation of the respiratory nd central nervous system effects. tions in excess of the stated e health effects such as mucous

Section 11. Toxicological information

		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. 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	1	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	1	There are no data available on the mixture itself.
Potential chronic health eff	<u>ect</u>	<u>s</u>
General	:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
Developmental effects	1	No known significant effects or critical hazards.
Fertility effects	1	No known significant effects or critical hazards.
Numerical measures of toxic	<u>ity:</u>	
Acute toxicity estimates		

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
99GY031 BASE COMPONENT	3951	N/A	N/A	31	2.7
heptan-2-one	1600	10206	N/A	16.7	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
ethyl 3-ethoxypropionate	3200	10000	N/A	N/A	N/A
carbon black, respirable powder	N/A	2500	N/A	N/A	N/A

Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
heptan-2-one ethylbenzene titanium dioxide	Acute LC50 131 mg/l Acute LC50 150 to 200 mg/l Fresh water Acute LC50 >100 mg/l Fresh water	Fish Fish Daphnia - Daphnia magna	96 hours 96 hours 48 hours

Persistence and degradability

United States Pag

Section 12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum
heptan-2-one	OECD 310	69 % - Rea	dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
heptan-2-one ethylbenzene	-		-		Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one ethylbenzene	1.98 3.15	- 79.43	low low
ettybenzene	5.15	79.45	10 VV

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	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	111	III	111
		Uni	ted States Page: 13/16

14. Transport information

•			
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	14616.1	Not applicable.	Not applicable.
RQ substances	(ethylbenzene, 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 IATA	None identified.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.

Section 15. Regulatory information

United States

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

SARA 302/304

SARA 304 RQ

: Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2 HNOC - Defatting irritant HNOC - May form explosive peroxides.

Composition/information on ingredients

Name	%	Classification
Peptan-2-one	≥20 - ≤42	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
ethylbenzene	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4
1	I	United States Page: 14/16

Section 15. Regulatory information

	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) (hearing organs) - Category 2
	ASPIRATION HAZARD - Category 1
	HNOC - Defatting irritant
≥5.0 - ≤10	CARCINOGENICITY - Category 2
≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
	HNOC - May form explosive peroxides.
	HNOC - Defatting irritant
≥5.0 - ≤10	COMBUSTIBLE DUSTS
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
<1.0	COMBUSTIBLE DUSTS
	CARCINOGENICITY - Category 2
	≥5.0 - ≤10 ≥5.0 - ≤10

<u>SARA 313</u>

Our allow a stiff set is

Chemical name

CAS number 100-41-4 Concentration 3 - 7

Supplier notification : ethylbenzene

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.

California Prop. 65

WARNING: Cancer - www.P65Warnings.ca.gov.

Section 16. Other information

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

Health : 2 * Flammability : 3 Physical hazards : 1

(*) - 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 and the associated label are not required on MSDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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

Health : 2 Flamma Date of previous issue	ibility : 3 Instability : 1 : 9/24/2019
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) N/A = Not available

Section 16. Other information

SGG = Segregation Group 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.

SAFETY DATA SHEET



Date of issue/Date of revision5 April 2018Version 6.03

Section 1. Identification		
Product name	: 99GY031CAT CURING SOLUTION COMPONENT	
Product code	: 99GY031CAT CURING SOLUTION 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	: Zatalyst.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 818 362 6711	
Emergency telephone number	: (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 (inhalation) - Category 4 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 19.3% (Oral), 19.3% (Dermal), 19.3% (Inhalation)
GHS label elements	
Hazard pictograms	

Date of issue 5 April 2018

Version 6.03

Product name 99GY031CAT CURING SOLUTION COMPONENT

Section 2. Hazards identification

Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Wear respiratory protection. 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. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. 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.
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	: Moisture-sensitive material. 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. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: May form explosive peroxides. Hazardous reactions or instability may occur under certain conditions of storage or use. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture

Product name

: Mixture

: 99GY031CAT CURING SOLUTION COMPONENT

)-≤75 28182-	• • -
0 - ≤4.3 110-43	
	-
0	- ≤5.0 763-69

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 sympto	oms/effects, acute and delayed

Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin contact : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. Over-exposure signs/symptoms

Eye contact : No specific data.

Section 4. First aid measures

Inhalation	 Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

Indication of immediate medical 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	1	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide
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.

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Date of issue 5 April 2018

Product name 99GY031CAT CURING SOLUTION COMPONENT

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

e-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, protect	tiv	e 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 containment and cleaning up

Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	-	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Special provisions	:	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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing 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. May form explosive peroxides. Keep away from combustible materials. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). 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: 50°C (122°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. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurization.

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits	
Hexamethylene diisocyanate, oligomers	IPEL (PPG).	
	TWA: 0.5 mg/m³	
	STEL: 1 mg/m ³	
Acetic acid, C9-11-branched alkyl esters, C10-rich	None.	
heptan-2-one	ACGIH TLV (United States, 3/2017).	
	TWA: 233 mg/m ³ 8 hours.	
	TWA: 50 ppm 8 hours.	
	OSHA PEL (United States, 6/2016).	
	TWA: 465 mg/m ³ 8 hours.	
	TWA: 100 ppm 8 hours.	
ethyl 3-ethoxypropionate	IPEL (PPG).	
	TWA: 50 ppm	
	STEL: 100 ppm	
hexamethylene-di-isocyanate	ACGIH TLV (United States, 3/2017).	
	TWA: 0.03 mg/m ³ 8 hours.	
	TWA: 0.005 ppm 8 hours.	
	OSHA PEL (United States, 6/2016). Absorbed through skin.	
	TWA: 5 mg/m ³ , (as CN) 8 hours.	
Key to abbreviation		
A = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.	S = Potential skin absorption SR = Respiratory sensitization	
C = 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 Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substance 	TWA = Time Weighted Average	
onsult local authorities for acceptable exposure limits.		
	a with averaging limital paragraph workplace	
Recommended monitoring : If this product contains ingredient	ing may be required to determine the effectiveness of	
	easures and/or the necessity to use respiratory	
	e should be made to appropriate monitoring standards.	
	ocuments for methods for the determination of	
hazardous substances will also b		
ppropriate engineering : Use only with adequate ventilation	n. Use process enclosures, local exhaust ventilation of	
	p worker exposure to airborne contaminants below an	

Controls
 Controls<

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 measures

Product name 99GY031CAT CURING SOLUTION COMPONENT

Section 8. Exposure controls/personal protection

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 <u>Skin protection</u>	: 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	: 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.
Respiratory protection	: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.
Restrictions on use	 Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Section 9. Physical and chemical properties

			United States	Page: 8/15
Flammability (solid, gas)	1	Not available.		
Decomposition temperature	4	Not available.		
Auto-ignition temperature	4	Not available.		
Material supports combustion.	1	Yes.		
Flash point	1	Closed cup: 38°C (100.4°F)		
Boiling point	4	>37.78°C (>100°F)		
Melting point	4	Not available.		
рН	4	Not available.		
Odor threshold	1	Not available.		
Odor	1	Not available.		
Color	1	Not available.		
Physical state	1	Liquid.		
<u>Appearance</u>				

Section 9. Physical and chemical properties

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(lbs / 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 cm ² /s (>21 cSt)
VOC	: 272 g/l
% Solid. (w/w)	: 74.56

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	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.		
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.		
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.		

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

Section 11. Toxicological information

Conclusion/SummarySkin: There are no data available on theEyes: There are no data available on theRespiratory: There are no data available on the	ne mixture itself. ne mixture itself.	>2000 mg/kg >2500 mg/kg >16.7 mg/l 10.206 g/kg 10 g/kg 3200 mg/kg 124 mg/m ³ 151 mg/m ³ 22 ppm 0.57 g/kg 0.71 g/kg	- 4 hours - - - 4 hours 4 hours 4 hours - -
LD50 Oralheptan-2-oneLC50 Inhalation VaporLD50 DermalLD50 Oralethyl 3-ethoxypropionateLD50 Dermalhexamethylene-di-isocyanateLC50 Inhalation Dusts and mistsLC50 Inhalation VaporLC50 Inhalation VaporLD50 DermalLD50 DermalLD50 DermalLC50 Inhalation VaporLC50 Inhalation VaporLD50 DermalLD50 DermalLD50 DermalLD50 DermalLD50 DermalLD50 OralStinConclusion/Summary: There are no data available on theSkin: There are no data available on theEyes: There are no data available on theRespiratory: There are no data available on theSensitization: There are no data available on theConclusion/Summary: There are no data available on the	Rat Rabbit Rat Rabbit Rat Rat Rat Rat Rabbit Rat ne mixture itself.	>16.7 mg/l 10.206 g/kg 1.6 g/kg 10 g/kg 3200 mg/kg 124 mg/m ³ 151 mg/m ³ 22 ppm 0.57 g/kg	- - - 4 hours 4 hours
LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 OralConclusion/Summary: There are no data available on the Eyes Respiratory SensitizationConclusion/Summary Sensitization: There are no data available on the There are no data available on the There are no data available on the There are no data available on the SensitizationConclusion/Summary Skin Conclusion/Summary Skin: There are no data available on the There are no data available on the There are no data available on the SensitizationConclusion/Summary: There are no data available on the There are no data available on the Sensitization	Rat Rabbit Rat Rabbit Rat Rat Rat Rat Rabbit Rat ne mixture itself.	>16.7 mg/l 10.206 g/kg 1.6 g/kg 10 g/kg 3200 mg/kg 124 mg/m ³ 151 mg/m ³ 22 ppm 0.57 g/kg	- - - 4 hours 4 hours
ethyl 3-ethoxypropionateLD50 Oralhexamethylene-di-isocyanateLD50 Oralhexamethylene-di-isocyanateLC50 Inhalation Dusts and mistsLC50 Inhalation VaporLC50 Inhalation VaporLD50 DermalLD50 DermalLD50 OralLD50 OralConclusion/SummarySkin: There are no data available on theEyes: There are no data available on theRespiratory: There are no data available on theSensitization: There are no data available on theConclusion/Summary: There are no data available on theSensitization: There are no data available on theConclusion/Summary: There are no data available on the	Rat Rabbit Rat Rat Rat Rat Rabbit Rat ne mixture itself.	1.6 g/kg 10 g/kg 3200 mg/kg 124 mg/m ³ 151 mg/m ³ 22 ppm 0.57 g/kg	4 hours
ethyl 3-ethoxypropionateLD50 Dermal LD50 Oralhexamethylene-di-isocyanateLC50 Inhalation Dusts and mists LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 OralConclusion/Summary: There are no data available on the EyesSkin: There are no data available on the EyesRespiratory: There are no data available on the SensitizationConclusion/Summary: There are no data available on the Sensitization	Rabbit Rat Rat Rat Rat Rabbit Rat ne mixture itself. ne mixture itself.	10 g/kg 3200 mg/kg 124 mg/m ³ 151 mg/m ³ 22 ppm 0.57 g/kg	4 hours
LD50 Oral hexamethylene-di-isocyanate LC50 Inhalation Dusts and mists LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Oral Conclusion/Summary Irritation/Corrosion Conclusion/Summary Skin Eyes There are no data available on the Respiratory Sensitization Conclusion/Summary	Rat Rat Rat Rat Rabbit Rat ne mixture itself. ne mixture itself.	3200 mg/kg 124 mg/m ³ 151 mg/m ³ 22 ppm 0.57 g/kg	4 hours
hexamethylene-di-isocyanateLC50 Inhalation Dusts and mists LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 OralConclusion/Summary: There are no data available on the Irritation/CorrosionConclusion/Summary Skin: There are no data available on the EyesSkin: There are no data available on the EyesSepairatory: There are no data available on the SensitizationConclusion/Summary: There are no data available on the is the set of	Rat Rat Rat Rabbit Rat ne mixture itself. ne mixture itself. ne mixture itself.	124 mg/m ³ 151 mg/m ³ 22 ppm 0.57 g/kg	4 hours
LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Oral Conclusion/Summary Irritation/Corrosion Conclusion/Summary Skin Eyes There are no data available on the Respiratory Sensitization Conclusion/Summary	Rat Rat Rabbit Rat ne mixture itself. ne mixture itself. ne mixture itself.	151 mg/m³ 22 ppm 0.57 g/kg	4 hours
LC50 Inhalation Vapor LD50 Dermal LD50 Oral Conclusion/Summary Irritation/Corrosion Conclusion/Summary Skin Eyes : There are no data available on the Respiratory Sensitization Conclusion/Summary Score Conclusion/Summary Skin : There are no data available on the Eyes : There are no data available on the Conclusion/Summary	Rat Rabbit Rat ne mixture itself. ne mixture itself. ne mixture itself.	22 ppm 0.57 g/kg	
LD50 Oral Conclusion/Summary : There are no data available on the second sec	Rat ne mixture itself. ne mixture itself. ne mixture itself.		-
Conclusion/Summary : There are no data available on the second secon	ne mixture itself. ne mixture itself. ne mixture itself. ne mixture itself.	0.71 g/kg	-
Irritation/Corrosion Conclusion/Summary Skin Eyes Respiratory Sensitization Conclusion/Summary	ne mixture itself. ne mixture itself.		
Conclusion/Summary Skin: There are no data available on the EyesEyes: There are no data available on the There are no data available on the SensitizationConclusion/Summary: There are no data available on the Sensitization	ne mixture itself.		
Skin: There are no data available on theEyes: There are no data available on theRespiratory: There are no data available on theSensitization: There are no data available on theConclusion/Summary: Sensitization	ne mixture itself.		
Eyes: There are no data available on the RespiratoryRespiratory: There are no data available on the SensitizationConclusion/Summary: Conclusion/Summary	ne mixture itself.		
Respiratory : There are no data available on the second secon			
Sensitization Conclusion/Summary	ne mixture itself.		
Conclusion/Summary			
Skin : There are no data available on the			
	ne mixture itself.		
Respiratory : There are no data available on the	ne mixture itself.		
<u>Mutagenicity</u>			
Conclusion/Summary : There are no data available on the	ne mixture itself.		
<u>Carcinogenicity</u>			
Conclusion/Summary : There are no data available on the	ne mixture itself.		
Reproductive toxicity			
Conclusion/Summary : There are no data available on th	e mixture itself.		
<u>Feratogenicity</u>			
Conclusion/Summary : There are no data available on th	e mixture itself.		
Specific target organ toxicity (single exposure)			
Name			Category
Hexamethylene diisocyanate, oligomers hexamethylene-di-isocyanate			Category 3 Category 3
Specific target organ toxicity (repeated exposure)			
Not available.			

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

Section 11. Toxicological information

Aspiration hazard

	Name	Result
	Acetic acid, C9-11-branched alkyl esters, C10-rich	ASPIRATION HAZARD - Category 1
Ir	formation on the likely routes of exposure	

Potential acute health effects

Potential acute health effe	
Eye contact	: No known significant effects or critical hazards.
Inhalation	 Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>itoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Delayed and immediate effe	cts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. 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	The second state of the later of the second state of the second st
Potential immediate effects	: There are no data available on the mixture itself.

Section 11. Toxicological information

Potential delayed effects : There are no data available on the mixture itself.				
Long term exposure				
: There are no data available on the mixture itself.				
: There are no data available on the mixture itself.				
ad to irritation, cracking and/or ay occur when subsequently				
: No known significant effects or critical hazards.				
: No known significant effects or critical hazards.				
No known significant effects or critical hazards.				
: No known significant effects or critical hazards.				
: No known significant effects or critical hazards.				
alation (vapors) 11.34 mg/l alation (dusts and mists) 1.546 mg/l				

Section 12. Ecological information

T	oxi	ici	ty	
			_	

Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate, oligomers	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia - daphnia magna Fish - Danio rerio (zebra fish)	48 hours 96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hexamethylene diisocyanate, oligomers	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene diisocyanate, oligomers	-	3.2	low
heptan-2-one hexamethylene-di-isocyanate	1.98 1.08		low low

		United States	Page: 12/15
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Section 12. Ecological information

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	Ш	III	III
Environmental hazards Marine pollutant substances	No. Not applicable.	No. Not applicable.	No. Not applicable.

Additional	information
DOT	 This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.
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.

Section 15. Regulatory information

United States

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

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant HNOC - May form explosive peroxides.

Composition/information on ingredients

Name	%	Classification
Hexamethylene diisocyanate, oligomers	≥50 - ≤75	COMBUSTIBLE DUSTS ACUTE TOXICITY (inhalation) - Category 4 SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Acetic acid, C9-11-branched alkyl esters, C10-rich	≥10 - ≤20	ASPIRATION HAZARD - Category 1
heptan-2-one	≥1.0 - ≤4.3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 HNOC - Defatting irritant
ethyl 3-ethoxypropionate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3 HNOC - May form explosive peroxides. HNOC - Defatting irritant
hexamethylene-di-isocyanate	<1.0	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

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Date of issue 5 April 2018

Version 6.03

Product name 99GY031CAT CURING SOLUTION COMPONENT

Section 15. Regulatory information

(Respiratory tract irritation) - Category 3

Section 16. Other information

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

Health : 3 * Flammability : 2 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 and the associated label are not required on MSDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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

Health : 3 Flamma	ability : 2 Instability : 0
Date of previous issue	: 3/28/2018
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 = International Air Transport Association IBC = 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.

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