

**SAFETY DATA SHEET** 



Date of issue/Date of revision 3 March 2020

Version 13

Section 1. Identification	
Product name	: 99GY001 BASE COMPONENT
Product code	: 99GY001 BASE COMPONENT
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses c	of 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 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	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 21.2% (Oral), 21.2% (Dermal), 33.1% (Inhalation)</li> </ul>

### 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).
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements Precautionary statements	:	Flammable liquid and vapor. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. (hearing organs)
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	:	Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. 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 including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
Storage	:	Store locked up. Store in a well-ventilated place. Keep cool.

### Section 2. Hazards identification

Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: 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	: 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

: 99GY001 BASE COMPONENT

Ingredient name	%	CAS number
heptan-2-one	≥20 - ≤35	110-43-0
Ethene, ethoxy-, polymer with chlorotrifluoroethene, 4-(ethenyloxy)-1-butanol	≥10 - ≤20	88795-12-4
and (ethenyloxy)cyclohexane		
4-chloro-α,α,α-trifluorotoluene	≥5.0 - ≤10	98-56-6
titanium dioxide	≥5.0 - ≤10	13463-67-7
ethyl 3-ethoxypropionate	≥5.0 - ≤10	763-69-9
Azacyclotridecan-2-one, homopolymer	≥1.0 - ≤5.0	25038-74-8
xylene	≥1.0 - ≤5.0	1330-20-7
ethylbenzene	≥1.0 - ≤4.4	100-41-4
glass, oxide, chemicals	≥1.0 - ≤5.0	65997-17-3
pentane-2,4-dione	≥0.10 - ≤2.2	123-54-6
carbon black, respirable powder	<1.0	1333-86-4
maleic anhydride	<0.10	108-31-6

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> <li>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.</li> </ul>
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### Section 4. First aid measures

Skin contact       :       Remove contaminated dothing and shoes. Wash skin throughly with scap and water or use recognized skin cleanser. Do NOT use solvents or thinners. 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 bitsering 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 voniting.         Most important symptoms/effects.       Eye contact       :       Causes serious eye irritation.         Inhalation       :       Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drows intess or dizzines. May cause respiratory irritation.         Skin contact       :       Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.         Ingestion       :       Adverse symptoms may include the following: pain or irritation watering redness         Eye contact       :       Adverse symptoms may include the following: respiratory tract irritation coughing nausea or womting needbache drowsiness/fatigue dizziness/vertigo unconsciousness         Inhalation       :       No specific data.         Indication of Immediate medical attention and special treatment needed. If necessary         Notes to	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.
person warm and at rest. Do NOT induce vomiting.         Most important symptoms/effects. acute and delayed         Potential acute health effects         Eye contact       : Causes serious eye irritation.         Inhalation       : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.         Skin contact       : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.         Ingestion       : Cause central nervous system (CNS) depression.         Over-exposure signs/symptoms       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness         Skin contact       : Adverse symptoms may include the following: irritation redness dryness cracking         Ingestion       : Adverse symptoms may include the following: irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness         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	Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. 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</li> </ul>
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### See toxicological information (Section 11)

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# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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 halogenated compounds carbonyl halides 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 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.

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### Section 6. Accidental release measures

#### 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: 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.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
reptan-2-one	ACGIH TLV (United States, 3/2019).
	TWA: 233 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 465 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
Ethene, ethoxy-, polymer with chlorotrifluoroethene, 4-(ethenyloxy)	None.
-1-butanol and (ethenyloxy)cyclohexane	
4-chloro-a,a,a-trifluorotoluene	IPEL (PPG).
	TWA: 25 ppm
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2019).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
ethyl 3-ethoxypropionate	IPEL (PPG).
	TWA: 50 ppm
	STEL: 100 ppm
Azacyclotridecan-2-one, homopolymer	None.
xylene	ACGIH TLV (United States, 3/2019).
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 3/2019).
oury bonzono	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
alara avida da aviada	TWA: 100 ppm 8 hours.
glass, oxide, chemicals	ACGIH TLV (United States).
	TWA: 1 f/cc Form: Continuous filament glass
	fibers
	TWA: 5 mg/m³, (Inhalable) Form:
	Continuous filament glass fibers
	TWA: 3 mg/m <sup>3</sup> Form: Respirable
	TWA: 10 mg/m <sup>3</sup> Form: Total dust
	OSHA PEL (United States).
	TWA: 15 mg/m³
	TWA: 5 mg/m <sup>3</sup> Form: Respirable
	TWA: 15 mg/m <sup>3</sup> Form: Total dust
	ACGIH TLV (United States, 3/2019).
	TWA: 5 mg/m <sup>3</sup> 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
	United States Page: 7/18

	membrane filter method at 400-450X
	magnification (4-mm objective) phase contrast
	illumination.
pentane-2,4-dione	ACGIH TLV (United States, 3/2019).
	Absorbed through skin.
	TWA: 25 ppm 8 hours.
carbon black, respirable powder	ACGIH TLV (United States, 3/2019).
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.
maleic anhydride	ACGIH TLV (United States, 3/2019). Skin
	sensitizer. Inhalation sensitizer.
	TWA: 0.01 mg/m³ 8 hours. Form: Inhalable
	fraction and vapor
	OSHA PEL (United States, 5/2018).
	TWA: 1 mg/m <sup>3</sup> 8 hours.
	TWA: 0.25 ppm 8 hours.
Key to abbreviations	
A A A A A A A A A A A A A A A A A A A	O Determination of the second term

А	<ul> <li>Acceptable Maximum Peak</li> </ul>	S	<ul> <li>Potential skin absorption</li> </ul>
ACGIH	<ul> <li>American Conference of Governmental Industrial Hygienists.</li> </ul>	SR	<ul> <li>Respiratory sensitization</li> </ul>
С	= Ceiling Limit	SS	<ul> <li>Skin sensitization</li> </ul>
F	= Fume	STEL	= Short term Exposure limit values
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	<ul> <li>Occupational Safety and Health Administration.</li> </ul>	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
_			

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

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	-	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Product name 99GY001 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. 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	: Chemical splash goggles.
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 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	: 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

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

# Section 9. Physical and chemical properties

Vapor density	: Not available.
Relative density	: 1.13
Density(lbs / gal)	: 9.43
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt)
VOC	: 470 g/l
% Solid. (w/w)	: 53.03

# 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	-
4-chloro- $\alpha$ , $\alpha$ , $\alpha$ -trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 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	-
	LD50 Oral	Rat	3200 mg/kg	-
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	·	1	United States	Page: 10/18

### Product name 99GY001 BASE COMPONENT

### Section 11. Toxicological information

LD50 Dermal	Rabbit	17.8 g/kg	-
LD50 Oral	Rat	3.5 g/kg	-
LC50 Inhalation Vapor	Rat	5.1 mg/l	4 hours
LD50 Dermal	Rat	790 mg/kg	-
LD50 Oral	Rat	570 mg/kg	-
LD50 Dermal	Rabbit	>3 g/kg	-
LD50 Oral	Rat	>15400 mg/kg	-
LD50 Dermal	Rabbit	2620 mg/kg	-
LD50 Oral	Rat	400 mg/kg	-
	LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral LD50 Dermal LD50 Oral LD50 Oral LD50 Dermal	LD50 OralRatLC50 Inhalation VaporRatLD50 DermalRatLD50 OralRatLD50 DermalRatbitLD50 OralRatLD50 OralRatLD50 OralRatLD50 DermalRat	LD50 OralRat3.5 g/kgLC50 Inhalation VaporRat5.1 mg/lLD50 DermalRat790 mg/kgLD50 OralRat570 mg/kgLD50 DermalRat>3 g/kgLD50 OralRat>15400 mg/kgLD50 OralRat2620 mg/kg

Conclusion/Summary

: There are no data available on the mixture itself.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Vlene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			·		-
Skin	: There are no data availa	ble on the mixt	ure itself.		
Eyes	: There are no data available on the mixture itself.				
Respiratory	: There are no data available on the mixture itself.				
<u>Sensitization</u>					
Conclusion/Summary					
Skin	: There are no data availa	ble on the mixt	ure itself.		
Respiratory	: There are no data available on the mixture itself.				

<u>Mutagenicity</u> Conclusion/Summary : There are no data available on the mixture itself.

### Carcinogenicity

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

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-
xylene	-	3	-
ethylbenzene	-	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	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.

**Route of** 

Target organs

### Section 11. Toxicological information

<u>Specific target organ toxicity (single exposure)</u>	<u>arget organ toxicity (single exposure)</u>				
Name	Category				

		exposure		
heptan-2-one Ethene, ethoxy-, polymer with chlorotrifluoroethene, 4- (ethenyloxy)-1-butanol and (ethenyloxy)cyclohexane	0,	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation	
4-chloro-α,α,α-trifluorotoluene	Category 3	Not applicable.	Respiratory tract	
Azacyclotridecan-2-one, homopolymer	Category 3	Not applicable.	Respiratory tract irritation	
xylene	Category 3	Not applicable.	Respiratory tract irritation	

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

Name		Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	hearing organs
maleic anhydride	Category 1	Inhalation	respiratory system

#### **Target organs**

.....

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

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

#### **Aspiration hazard**

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

#### Information on the likely routes of exposure

Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo

Product name 99GY001 BASE COMPONENT

# Section 11. Toxicological information

Skin contact	unconsciousness Adverse symptoms may include the following:
okin contact	irritation
	redness
	dryness
	cracking
Ingestion	: No specific data.
elayed and immediate effect	cts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. 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 formulatil 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 brust 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). Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. 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, fatigu muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There 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. 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 an
Short term exposure	The second se
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	<u>ects</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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of
	exposure.  No known significant effects or critical hazards.
Mutagonicity	
Mutagenicity Teratogenicity	No known significant effects or critical hazards.

Product name 99GY001 BASE COMPONENT

### Section 11. Toxicological information

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

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)
99GY001 BASE COMPONENT	4001.9	9288.9	N/A	29.5	3.2
heptan-2-one	1600	10206	N/A	16.7	1.5
4-chloro-α,α,α-trifluorotoluene	13000	2500	N/A	33.08	N/A
ethyl 3-ethoxypropionate	3200	10000	N/A	N/A	N/A
xylene	4300	1100	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
pentane-2,4-dione	570	790	N/A	5.1	N/A
carbon black, respirable powder	N/A	2500	N/A	N/A	N/A
maleic anhydride	400	2620	N/A	N/A	N/A

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
titanium dioxide	5	Fish Daphnia - Daphnia magna Fish	96 hours 48 hours 96 hours

### Persistence and degradability

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

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	1.98	-	low
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low
pentane-2,4-dione	0.4	-	low

### Mobility in soil

United States	Page: 14/18

# 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	Ш	Ш	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	2739.8	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	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.

# Section 15. Regulatory information

#### **United States**

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

	- Chemical export notification:	One time netificatio	_
4-chloro-a,a,a-trifluorotoluen	e	One time notification	•
pentane-2,4-dione		One time notification	n
United States - TSCA 5(a)2	- Final significant new use rules: e	Listed Listed	40 CFR 799.5089 40 CFR 721.1535
SARA 304 RQ	: Not applicable.		
Composition/information o	n ingredients		
No products were found.			
SARA 311/312			
Classification :	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SING irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SING Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPE Category 2 HNOC - Defatting irritant HNOC - May form explosive peroxides.	LE EXPOSURE) (Nai	rcotic effects) -

#### Composition/information on ingredients

Name	%	Classification
heptan-2-one	≥20 - ≤35	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
Ethene, ethoxy-, polymer with	≥10 - ≤20	COMBUSTIBLE DUSTS
chlorotrifluoroethene, 4-		SKIN IRRITATION - Category 2
(ethenyloxy)-1-butanol and		EYE IRRITATION - Category 2A
(ethenyloxy)cyclohexane		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
4-chloro- $\alpha$ , $\alpha$ , $\alpha$ -trifluorotoluene	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
<u>.</u>	•	United States Page: 16/18

### Section 15. Regulatory information

_		
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
	5.5.0 110	HNOC - Defatting irritant
titanium dioxide	≥5.0 - ≤10	CARCINOGENICITY - Category 2
ethyl 3-ethoxypropionate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
		HNOC - May form explosive peroxides.
		HNOC - Defatting irritant
Azacyclotridecan-2-one,	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
homopolymer		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
xylene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
ethylbenzene	≥1.0 - ≤4.4	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) (hearing organs) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
pentane-2,4-dione	≥0.10 - ≤2.2	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 3
		ACUTE TOXICITY (inhalation) - Category 3
carbon black, respirable powder	<1.0	COMBUSTIBLE DUSTS
		CARCINOGENICITY - Category 2
maleic anhydride	<0.10	COMBUSTIBLE DUSTS
		ACUTE TOXICITY (oral) - Category 4
		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1
		RESPIRATORY SENSITIZATION - Category 1A
		SKIN SENSITIZATION - Category 1A
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) (respiratory system) (inhalation) - Category 1
<u> </u>	ļ	

### <u>SARA 313</u>

Supplier notification	Chemical name	<u>CAS number</u>	Concentration
	: xylene	1330-20-7	1 - 5
	ethylbenzene	100-41-4	1 - 5
	ethylbenzene	100-41-4	1 - 5

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

#### California Prop. 65

MARNING: 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.)

Date of previous issue Organization that prepared	pility : 3 Instability : 1 : 12/10/2019 : EHS
the MSDS 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) N/A = Not available 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 revision25 May 2018Version 6.03

Section 1. Identification		
Product name	: 99GY001CAT CURING SOLUTION	
Product code	: 99GY001CAT CURING SOLUTION	
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	: Catalyst.	
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	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>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</li> </ul>
	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	

# Section 2. Hazards identification

Signal word	L Denger
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Harmful if inhaled.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause an allergic skin reaction.</li> <li>May cause respiratory irritation.</li> </ul>
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
- : 99GY001CAT CURING SOLUTION

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# Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Hexamethylene diisocyanate, oligomers	≥50 - ≤75	28182-81-2
Acetic acid, C9-11-branched alkyl esters, C10-rich	≥10 - ≤20	108419-34-7
heptan-2-one	≥1.0 - ≤4.3	110-43-0
ethyl 3-ethoxypropionate	≥1.0 - ≤5.0	763-69-9
hexamethylene-di-isocyanate	<1.0	822-06-0

SUB codes represent substances without registered CAS Numbers.

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

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

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

### Section 4. First aid measures

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

### Description of necessary first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

Potential acute health effect	
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/symp	<u>s</u>
Eye contact	No specific data.
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma

# Section 4. First aid measures

Skin contact	<ul> <li>Adverse symptoms may include the following: irritation</li> </ul>	
	redness	
	dryness	
	cracking	
Ingestion	: No specific data.	

indication of inimediate medical attention and special treatment needed, in necessary			
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delay The exposed person may need to be kept under medical surveillance for 48 hours		
Specific treatments	No specific treatment.		
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If suspected that fumes are still present, the rescuer should wear an appropriate maself-contained breathing apparatus. It may be dangerous to the person providing give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with before removing it, or wear gloves.	ask or aid to	

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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	<ul> <li>Decomposition products may include the following materials: carbon oxides nitrogen oxides</li> <li>Cyanate and isocyanate.</li> <li>hydrogen cyanide</li> </ul>
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 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. CO <sub>2</sub> will be formed, which, in closed containers, could result in pressurization.

# Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits	
Ingredient name	Exposure limits
Fexamethylene diisocyanate, oligomers	<b>IPEL (PPG).</b> TWA: 0.5 mg/m³ STEL: 1 mg/m³
Acetic acid, C9-11-branched alkyl esters, C10-rich heptan-2-one	None. ACGIH TLV (United States, 3/2017). TWA: 233 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. OSHA PEL (United States, 6/2016).
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# Section 8. Exposure controls/personal protection

ethyl 3-ethoxypropionate	TWA: 465 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. <b>IPEL (PPG).</b> TWA: 50 ppm		
hexamethylene-di-isocyanate	STEL: 100 ppm ACGIH TLV (United States, 3/2017). TWA: 0.03 mg/m <sup>3</sup> 8 hours. TWA: 0.005 ppm 8 hours. OSHA PEL (United States, 6/2016). Absorbed through skin. TWA: 5 mg/m <sup>3</sup> , (as CN) 8 hours.		
Key to abbreviat	ions		
A       = Acceptable Maximum Peak         ACGIH       = American Conference of Governmental Industrial Hygienists.         C       = Ceiling Limit         F       = Fume         IPEL       = Internal Permissible Exposure Limit         OSHA       = Occupational Safety and Health Administration.         R       = Respirable         Z       = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substant	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average		
Consult local authorities for acceptable exposure limits.			
the ventilation or other control n protective equipment. Reference	oring may be required to determine the effectiveness of neasures and/or the necessity to use respiratory ce should be made to appropriate monitoring standards. documents for methods for the determination of		
controls other engineering controls to ke recommended or statutory limit	ion. Use process enclosures, local exhaust ventilation or eep worker exposure to airborne contaminants below any s. The engineering controls also need to keep gas, elow any lower explosive limits. Use explosion-proof		
Environmental exposure : Emissions from ventilation or w	ork process equipment should be checked to ensure nts of environmental protection legislation. In some		

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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	: Safety glasses with side shields.

will be necessary to reduce emissions to acceptable levels.

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

Skin protection

# 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	: 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	<ul> <li>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.</li> </ul>

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Not available.	
Odor	: Not available.	
Odor threshold	: Not available.	
рН	: Not available.	
Melting point	: Not available.	
Boiling point	: >37.78°C (>100°F)	
Flash point	: Closed cup: 38°C (100.4°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.	
Relative density	: 1.07	
Density(lbs / gal)	: 8.93	

# Section 9. Physical and chemical properties

Solubility	1	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	1	Not available.
Viscosity	4	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
VOC	1	272 g/l
% Solid. (w/w)	1	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

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers	LD50 Dermal	Rabbit	>2000 mg/kg	-
-	LD50 Oral	Rat - Female	>2500 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	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
hexamethylene-di-isocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m <sup>3</sup>	4 hours
, , , , , , , , , , , , , , , , , , ,	LC50 Inhalation Vapor	Rat	151 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	22 ppm	4 hours
	LD50 Dermal	Rabbit	0.57 g/kg	-
	LD50 Oral	Rat	0.71 g/kg	-

Irritation/Corrosion

**Conclusion/Summary** 

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### Section 11. Toxicological information

Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitization	
Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Specific target organ tox	<u>icity (single exposure)</u>
Name	

Name	Category
Hexamethylene diisocyanate, oligomers	Category 3
hexamethylene-di-isocyanate	Category 3

Specific target organ toxicity (repeated exposure)

Not available.

#### Target organs

: 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.

#### Aspiration hazard

Name	Result
Acetic acid, C9-11-branched alkyl esters, C10-rich	ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	<ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
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	s/symptoms
Eye contact	: No specific data.

# Product name 99GY001CAT CURING SOLUTION

# Section 11. Toxicological information

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Acute toxicity estimates	
Numerical measures of toxic	
Fertility effects	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Potential chronic health effe	
Potential delayed effects	: There are no data available on the mixture itself.
Potential immediate effects	: There are no data available on the mixture itself.
Long term exposure	
Potential delayed effects	: There are no data available on the mixture itself.
Potential immediate effects	: There are no data available on the mixture itself.
<u>Short term exposure</u>	
Ingestion Delayed and immediate effe Conclusion/Summary	<ul> <li>cracking</li> <li>No specific data.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>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 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 exposure and eye contact.</li> </ul>
	irritation redness dryness cracking
Skin contact	asthma : Adverse symptoms may include the following:
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties

# Section 11. Toxicological information

Route	ATE value	
Oral Inhalation (gases)	25998 mg/kg 4639.2 ppm	
Inhalation (vapors)	11.34 mg/l	
Inhalation (dusts and mists)	1.546 mg/l	

# Section 12. Ecological information

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
✓ examethylene 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

### 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

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### Section 13. Disposal considerations

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

#### Additional information

DOT	<ul> <li>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.</li> </ul>
IMDG	: None identified.
ΙΑΤΑ	: 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

### Section 15. Regulatory information

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
✓examethylene 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	ASPIRATIÓN 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) (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.

Nationa	l Fir	e Protec	ction Association (U.S.A.)			
Health	:	3	Flammability : 2 Instab	oility :	(	C
Date of previous issue : 4/5/2018						

Date of issue 25 May 2018

### Section 16. Other information

Organization that prepared the MSDS	: EHS
Key to abbreviations	<ul> <li>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</li> </ul>

### ✓ 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.