SAFETY DATA SHEET



Date of issue/Date of revision16 February 2020Version 7.01

Section 1. Identification		
Product name	: 03GY328 BASE COMPONENT	
Product code	: 03GY328 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 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 25.9% (Oral), 26.9% (Dermal), 38.6% (Inhalation)
	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).

United States

Page: 1/16

Section 2. Hazards identification

GHS label elements Hazard pictograms

Signal word



	Danger
Hazard statements	: Highly flammable liquid and vapor. Causes serious eye irritation. Suspected of causing cancer. May cause drowsiness or dizziness.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.
Response	: IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: 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	1	Mixture
Product name	1	03GY328 BASE COMPONENT

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
pentan-2-one	≥5.0 - ≤10	107-87-9
titanium dioxide	≥5.0 - ≤10	13463-67-7
4-chloro-α,α,α-trifluorotoluene	≥5.0 - ≤8.3	98-56-6
ethyl 3-ethoxypropionate	≥5.0 - ≤10	763-69-9
n-butyl acetate	≥5.0 - ≤10	123-86-4
heptan-2-one	≥5.0 - ≤9.6	110-43-0
4-methylpentan-2-one	≤1.1	108-10-1
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.
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 s	vmptoms/effects	. acute and delaved

Potential acute health effect	<u>S</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	oms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

Section 4. First aid measures

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 medi	cal attention and special treatment needed, if necessary

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. 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.

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	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon 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.

Product name 03GY328 BASE COMPONENT

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	nt	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

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 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.

Section 7. Handling and storage

Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. 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
pentan-2-one	OSHA PEL (United States, 5/2018).
	TWA: 700 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2019).
	STEL: 150 ppm 15 minutes.
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2019).
	TWA: 10 mg/m ³ 8 hours.
4-chloro-α,α,α-trifluorotoluene	IPEL (PPG).
	TWA: 25 ppm
ethyl 3-ethoxypropionate	IPEL (PPG).
	TWA: 50 ppm
	STEL: 100 ppm
n-butyl acetate	OSHA PEL (United States, 5/2018).
	TWA: 710 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	ACGIH TLV (United States, 3/2019).
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
heptan-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).
	United States Page: 6/16

Section 8. Exposure controls/personal protection

Key to abbreviations A = Acceptable Maximum Peak	ACG STE TW OSH TW TW ACG TW fracti	 /A: 100 ppm 8 hours. SIH TLV (United States, 3/2019). EL: 75 ppm 15 minutes. /A: 20 ppm 8 hours. IA PEL (United States, 5/2018). /A: 410 mg/m³ 8 hours. /A: 100 ppm 8 hours. SIH TLV (United States, 3/2019). /A: 3 mg/m³ 8 hours. Form: Inhalable tion IA PEL (United States, 5/2018). /A: 3.5 mg/m³ 8 hours.
carbon black, respirable powder Key to abbreviations	STE TW OSH TW TW ACG TW fracti OSH	EL: 75 ppm 15 minutes. /A: 20 ppm 8 hours. IA PEL (United States, 5/2018). /A: 410 mg/m ³ 8 hours. /A: 100 ppm 8 hours. GIH TLV (United States, 3/2019). /A: 3 mg/m ³ 8 hours. Form: Inhalable tion IA PEL (United States, 5/2018).
Key to abbreviations A = Acceptable Maximum Peak	TW OSH TW TW ACG TW fracti OSH	 /A: 20 ppm 8 hours. IA PEL (United States, 5/2018). /A: 410 mg/m³ 8 hours. /A: 100 ppm 8 hours. SiH TLV (United States, 3/2019). /A: 3 mg/m³ 8 hours. Form: Inhalable ion IA PEL (United States, 5/2018).
Key to abbreviations A = Acceptable Maximum Peak	OSH TW TW ACG TW fracti OSH	IA PEL (United States, 5/2018). /A: 410 mg/m ³ 8 hours. /A: 100 ppm 8 hours. SIH TLV (United States, 3/2019). /A: 3 mg/m ³ 8 hours. Form: Inhalable tion IA PEL (United States, 5/2018).
Key to abbreviations A = Acceptable Maximum Peak	TW TW ACG TW fracti OSH	/A: 410 mg/m ³ 8 hours. /A: 100 ppm 8 hours. GIH TLV (United States, 3/2019). /A: 3 mg/m ³ 8 hours. Form: Inhalable tion IA PEL (United States, 5/2018).
Key to abbreviations A = Acceptable Maximum Peak	TW TW ACG TW fracti OSH	/A: 410 mg/m ³ 8 hours. /A: 100 ppm 8 hours. GIH TLV (United States, 3/2019). /A: 3 mg/m ³ 8 hours. Form: Inhalable tion IA PEL (United States, 5/2018).
Key to abbreviations A = Acceptable Maximum Peak	TW ACG TW fracti OSH	/A: 100 ppm 8 hours. GIH TLV (United States, 3/2019). /A: 3 mg/m ³ 8 hours. Form: Inhalable ion IA PEL (United States, 5/2018).
Key to abbreviations A = Acceptable Maximum Peak	ACG TW fracti OSH	GIH TLV (United States, 3/2019). /A: 3 mg/m ³ 8 hours. Form: Inhalable ion IA PEL (United States, 5/2018).
Key to abbreviations A = Acceptable Maximum Peak	TW fracti OSH	/A: 3 mg/m ³ 8 hours. Form: Inhalable ion IA PEL (United States, 5/2018).
A = Acceptable Maximum Peak	fracti OSH	ion IA PEL (United States, 5/2018).
A = Acceptable Maximum Peak	OSH	IA PEL (United States, 5/2018).
A = Acceptable Maximum Peak		•
A = Acceptable Maximum Peak	IVV	A: 3.5 mg/m° 8 nours.
A = Acceptable Maximum Peak		
I		
CGIH = American Conference of Governmental Industrial Hydienists	S	 Potential skin absorption
	SR SS	 Respiratory sensitization
C = Ceiling Limit		 Skin sensitization
F = Fume		 Short term Exposure limit values
PEL = Internal Permissible Exposure Limit		= Total dust
DSHA = Occupational Safety and Health Administration.	ΓLV	= Threshold Limit Value
1	WA	= Time Weighted Average
Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		

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 measured	es	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	1	Chemical splash goggles.
Skin protection		

Product name 03GY328 BASE COMPONENT

Section 8. Exposure controls/personal protection

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

	United States	Page: 8/16
e following materials: cold water.		
.78°C (46°F)		
00°F)		

Product name 03GY328 BASE COMPONENT

Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
VOC	: 431 g/l
% Solid. (w/w)	: 58.7

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
pentan-2-one	LC50 Inhalation Vapor	Rat	25.5 mg/l	4 hours
	LD50 Dermal	Rabbit	6500 mg/kg	-
	LD50 Oral	Rat	1600 mg/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	-
4-chloro-α,α,α-trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
neptan-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-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
			United States	Page: 9/16

Section 11. Toxicological information

	LD50 Oral			Rat	2.08 g/kg	-
carbon black, respirable	LD50 Derr			Rabbit	>3 g/kg	-
powder		i i di		1 top bit	0 9/109	
•	LD50 Oral			Rat	>15400 mg/kg	-
Conclusion/Summary	: There ar	: There are no data available			self.	
rritation/Corrosion						
Conclusion/Summary						
Skin	: There ar	: There are no data available			self.	
Eyes	: There ar	e no data a	available on th	ne mixture it	self.	
Respiratory	: There are	e no data a	available on th	ne mixture it	self.	
Sensitization						
Conclusion/Summary						
Skin	: There ar	: There are no data available on the mixture itself.				
Respiratory	: There ar	e no data a	available on th	ne mixture it	self.	
Mutagenicity						
Conclusion/Summary	: There ar	e no data a	available on th	ne mixture it	self.	
Carcinogenicity						
Conclusion/Summary	: There ar	e no data a	available on th	e mixture it	self.	
<u>Classification</u>						
Product/ingredient name	OSHA	IARC	NTP			
titanium dioxide	-	2B	-			
4-methylpentan-2-one	-	2B	_			
carbon black, respirable	-	2B	-			
powder						
Carcinogen Classificatio	on code:					
IARC: 1, 2A, 2B, 3						
NTP: Known to I OSHA: +	be a human car	cinogen; Rea	isonably anticip	ated to be a h	uman carcinogen	
Not listed/not reg	julated: -					
Reproductive toxicity						
Conclusion/Summary	: There are	e no data a	vailable on th	e mixture its	self	
<u>eratogenicity</u>	· more are				5011.	
Conclusion/Summary	• There are	no data a	vailable on th	a mixtura ita	alf	
Specific target organ toxicit					JOII.	
Name			Cate	gory	Route of	Target organs
			Cate	·9~·7	exposure	. algot olgans
pentan-2-one			Cate	gory 3	Not applicable.	Narcotic effects
				gory 3	Not applicable.	Respiratory tract
				5 7 2	1,	irritation
4-chloro-α,α,α-trifluorotoluene				•	1	1
4-chioro-α,α,α-trifiuorotoluene	9		Cate	gory 3	Not applicable.	Respiratory tract irritation

Category 3 Category 3

Category 3

n-butyl acetate heptan-2-one 4-methylpentan-2-one

United States Pag

Not applicable.

Not applicable.

Not applicable.

Page: 10/16

Narcotic effects

Narcotic effects

Respiratory tract

irritation

Section 11. Toxicological information

Specific target organ tox Not available.	icity (repeated exposure)
<u>Target organs</u>	: Contains material which causes damage to the following organs: brain, central nervous system (CNS). Contains material which may cause damage to the following organs: kidneys, lungs, liver, peripheral nervous system, upper respiratory tract, skin, eye, lens or cornea.
Aspiration hazard Not available.	
Information on the likely re	outes of exposure
Potential acute health eff	rects
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/syn	
Eye contact Inhalation	 Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue
Skin contact	dizziness/vertigo unconsciousness : Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
	fects 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 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). 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

United States Page: 11/16

Section 11. Toxicological information

		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
Short term exposure		contact.
		There are no data available on the wintum itealf
Potential immediate effects	1	There are no data available on the mixture itself.
		There are no data available on the mixture itself.
Potential delayed effects	1	
Long term exposure		The second state of the se
Potential immediate	1	There are no data available on the mixture itself.
effects		The second state of the se
-		There are no data available on the mixture itself.
Potential chronic health eff	<u>ect</u>	<u>s</u>
General	:	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		No known significant effects or critical hazards.
Fertility effects		No known significant effects or critical hazards.
Numerical measures of toxic		0

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)
03GY328 BASE COMPONENT	6774.6	23902	N/A	119.5	11.2
pentan-2-one	1600	6500	N/A	25.5	N/A
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
n-butyl acetate	10768	N/A	N/A	N/A	N/A
heptan-2-one	1600	10206	N/A	16.7	1.5
4-methylpentan-2-one	2080	N/A	N/A	12.3	1.5
carbon black, respirable powder	N/A	2500	N/A	N/A	N/A

Section 12. Ecological information

-		
	NVI	
		LV

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 18 mg/l	Fish	96 hours
	Acute LC50 131 mg/l	Fish	96 hours

Unite	d States	Page: 12/16
-------	----------	-------------

Section 12. Ecological information

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
p -butyl acetate heptan-2-one	TEPA and OECD 301D OECD 310		dily - 28 days dily - 28 days	-		-
Product/ingredient name	Aquatic half-life	•	Photolysis		Biodeg	radability
n -butyl acetate heptan-2-one	-		-		Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
pentan-2-one	0.91	-	low
n-butyl acetate	1.78	-	low
heptan-2-one	1.98	-	low
4-methylpentan-2-one	1.31	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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

14. Transport information

-			
	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	П	11	II
Environmental hazards Marine pollutant substances	No. Not applicable.	No. Not applicable.	No. Not applicable.

Additional information

DOT	: None identified.
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.

4-chloro-α,α,α-trifluorotoluer) - Chemical export notification: ne 2 - Final significant new use rules:	One time notification
pentane-2,4-dione		Listed
<u>SARA 302/304</u>		
SARA 304 RQ	: Not applicable.	
Composition/information o	n ingredients	
No products were found.		
SARA 311/312		
Classification	 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SING Category 3 HNOC - Defatting irritant HNOC - May form explosive peroxides. 	LE EXPOSURE) (Narcotic effects) -
Composition/information o	n ingredients	

United States Page: 14/16

Section 15. Regulatory information

Name	%	Classification
pentan-2-one	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
titanium dioxide	≥5.0 - ≤10	CARCINOGENICITY - Category 2
4-chloro-a,a,a-trifluorotoluene	≥5.0 - ≤8.3	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
ethyl 3-ethoxypropionate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
		HNOC - May form explosive peroxides.
		HNOC - Defatting irritant
n-butyl acetate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
hantan Olana	>5.0 <0.0	HNOC - Defatting irritant
heptan-2-one	≥5.0 - ≤9.6	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
4-methylpentan-2-one	≤1.1	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
carbon black, respirable powder	<1.0	COMBUSTIBLE DUSTS
		CARCINOGENICITY - Category 2

SARA 313

Chemical name : 4-methylpentan-2-one

CAS number Concentration 108-10-1

0.5 - 1.5

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

California Prop. 65

Supplier notification

WARNING: Cancer and Reproductive Harm - 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 Organization that prepared the MSDS	bility : 3 Instability : 1 : 8/10/2019 : 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) 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 revision20 November 2018Version 10

Section 1. Identification		
Product name	: 03GY328CAT CURING SOLUTION COMPONENT	
Product code	: 03GY328CAT CURING SOLUTION COMPONENT	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	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	 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: 3% (Dermal), 4% (Inhalation)
GHS label elements	
Hazard pictograms	

Product name 03GY328CAT 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.

: Mixture

Section 3. Composition/information on ingredients

Substance/mixture

Product name

re

: 03GY328CAT CURING SOLUTION COMPONENT

Ingredient name	%	CAS number
Fexamethylene diisocyanate, oligomers	≥50 - ≤75	28182-81-2
ethyl 3-ethoxypropionate	≥10 - ≤20	763-69-9
n-butyl acetate	≥1.0 - ≤5.0	123-86-4
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤5.0	64742-95-6
propylbenzene	≥1.0 - ≤5.0	103-65-1
mesitylene	≥1.0 - ≤5.0	108-67-8
1,2,4-trimethylbenzene	≤1.4	95-63-6
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/ef	cts, 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/sympt	<u>ms</u>

Section 4. First aid measures

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.

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	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable to suspected that fumes are still present, the rescuer should wear an appro- self-contained breathing apparatus. It may be dangerous to the person give mouth-to-mouth resuscitation. Wash contaminated clothing thorou before removing it, or wear gloves.	opriate mask or providing aid to

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide

Section 5. Fire-fighting measures

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

Section 6. Accidental release measures

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	1
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 ₂ 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
Hexamethylene diisocyanate, oligomers	IPEL (PPG).
	TWA: 0.5 mg/m ³
	STEL: 1 mg/m ³
ethyl 3-ethoxypropionate	IPEL (PPG).
	TWA: 50 ppm
	STEL: 100 ppm
n-butyl acetate	OSHA PEL (United States, 5/2018).
	TWA: 710 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	ACGIH TLV (United States, 3/2018).
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
propylbenzene	None.
mesitylene	ACGIH TLV (United States, 3/2018).
	TWA: 123 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2018).
·,_, · · · · · · · · · · · · · · · · · ·	TWA: 123 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
hexamethylene-di-isocyanate	ACGIH TLV (United States, 3/2018).
	TWA: 0.03 mg/m ³ 8 hours.
	TWA: 0.005 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	Absorbed through skin.
	TWA: 5 mg/m ³ , (as CN) 8 hours.
Key to abbreviatior	
A = Acceptable Maximum Peak	S = Potential skin absorption
CGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization

= Fume

F IPEL = Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration.

R = Respirable

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

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring : 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.

STEL

TD

TLV

TWA

= Short term Exposure limit values

= Threshold Limit Value

= Time Weighted Average

= Total dust

Product name 03GY328CAT CURING SOLUTION COMPONENT

Section 8. Exposure controls/personal protection

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 meas	<u>lres</u>
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

Appearance

Physical state	: Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 57.78°C (136°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	: 1.08
Density(lbs / gal)	: 9.01
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	: 282 g/l
% Solid. (w/w)	73.6

Section 10. Stability and reactivity

	United States Page: 9/16
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water Uncontrolled exothermic reactions occur with amines and alcohols.
	Refer to protective measures listed in sections 7 and 8.
Conditions to avoid	: In a fire, hazardous decomposition products may be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Descibility of barrendous	
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Product name 03GY328CAT CURING SOLUTION COMPONENT

Section 10. Stability and reactivity

Hazardous 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	-
5	LD50 Oral	Rat - Female	>2500 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	-
light aromatic	LD50 Oral	Rat	8400 mg/kg	
propylbenzene	LD50 Oral	Rat	6040 mg/kg	-
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
mesitylene	LD50 Oral	Rat	5000 mg/kg	- 110013
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
hexamethylene-di-isocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	151 mg/m ³	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	
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	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.

Section 11. Toxicological information

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	Category
Fexamethylene diisocyanate, oligomers	Category 3
n-butyl acetate	Category 3
Solvent naphtha (petroleum), light aromatic	Category 3
propylbenzene	Category 3
mesitylene	Category 3
1,2,4-trimethylbenzene	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, central nervous system (CNS). Contains material which may cause damage to the following organs: blood, lungs, upper

respiratory tract, skin, eye, lens or cornea.

Aspiration hazard

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

Information on the likely routes of exposure

Potential acute health	<u>effects</u>
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.
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
	United States Page: 11/16

Product code 03GY328C COMPONE	CAT CURING SOLUTION	Date of issue 20 November 2018 Version 10	
		MPONENT	
Section 11. Toxic	ological information		
Ingestion	: No specific data.		
Delayed and immediate effe	ects and also chronic effects from	<u>short and long term exposure</u>	
Conclusion/Summary	may lead to allergic lung react components and considering to cause acute irritation and/or se asthmatic condition, wheezing to permanent respiratory disat concentrations in excess of the health effects such as mucous effects on the kidneys, liver an headache, dizziness, fatigue, n loss of consciousness. Solver through the skin. There is son vapors in combination with con expected from exposure to no irritation and reversible damag This takes into account, where	the mixture itself. Skin contact to isocyanate monomer ion. Based on the properties of the isocyanate coxicological data on similar mixtures, this mixture may ensitization of the respiratory system, leading to an and tightness of the chest. Repeated exposure may lead bility. Exposure to component solvent vapor e stated occupational exposure limit may result in adverse membrane and respiratory system irritation and adverse d central nervous system. Symptoms and signs include muscular weakness, drowsiness and, in extreme cases, nts may cause some of the above effects by absorption ne evidence that repeated exposure to organic solvent nstant loud noise can cause greater hearing loss than ise alone. If splashed in the eyes, the liquid may cause ge. Ingestion may cause nausea, diarrhea and vomiting. e known, delayed and immediate effects and also chronic nort-term and long-term exposure by oral, inhalation and d eye contact.	
<u>Short term exposure</u>			
Potential immediate effects	: There are no data available or	n the mixture itself.	
Potential delayed effects	: There are no data available or	n the mixture itself.	
<u>Long term exposure</u>			
Potential immediate effects	: There are no data available or	n the mixture itself.	
Potential delayed effects	: There are no data available or	n the mixture itself.	
Potential chronic health eff	ects		
General	dermatitis. Once sensitized, a exposed to very low levels.	t can defat the skin and lead to irritation, cracking and/or severe allergic reaction may occur when subsequently	
Carcinogenicity	: No known significant effects o	r critical hazards.	
Mutagenicity	: No known significant effects o	r critical hazards.	
Teratogenicity	: No known significant effects o	r critical hazards.	
Developmental effects	ts : No known significant effects or critical hazards.		
Fertility effects			
Numerical measures of toxi	<u>city</u>		
Acute toxicity estimates			
Route		ATE value	
 Øral Dermal Inhalation (gases) Inhalation (vapors) Inhalation (dusts and mists) 		17206.6 mg/kg 116000 mg/kg 6097.6 ppm 14.98 mg/l 2.033 mg/l	

Section 12. Ecological information

Toxicity

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
Rexamethylene diisocyanate, oligomers	-	3.2	low
n-butyl acetate	1.78	-	low
propylbenzene	3.69		low
mesitylene	3.42	186.21	low
1,2,4-trimethylbenzene	3.63	120.23	low
hexamethylene-di-isocyanate	1.08	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

Section 13. Disposal considerations

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

14. Transport information

_			-
	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	Ш	Ш	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	14285.7	Not applicable.	Not applicable.
RQ substances	(hexamethylene-di-isocyanate)	Not applicable.	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 in package sizes less than the product reportable quantity.IMDG: None identified.IATA: None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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 - May form explosive peroxides.
	HNOC - Defatting irritant

Composition/information on ingredients

SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ethyl 3-ethoxypropionate ≥10 - ≤20 n-butyl acetate ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 HNOC - Defatting irritant Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 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 (SINGLE EXPOSURE (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Cat	Name	%	Classification
oligomers ACUTE TOXICITY (inhalation) - Category 4 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ethyl 3-ethoxypropionate ≥10 - ≤20 FLAMMABLE LIQUIDS - Category 3 n-butyl acetate ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 NNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3 Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 1 hNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 1 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tractiritat	Hexamethylene diisocyanate,	≥50 - ≤75	COMBUSTIBLE DUSTS
SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - May form explosive peroxides. HNOC - Defatting irritant n-butyl acetate ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 HNOC - Defatting irritant Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 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 (SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 1 HNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 fLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0 </td <td>oligomers</td> <td></td> <td>ACUTE TOXICITY (inhalation) - Category 4</td>	oligomers		ACUTE TOXICITY (inhalation) - Category 4
ethyl 3-ethoxypropionate ≥10 - ≤20 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 n-butyl acetate ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 2 Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 1 HNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 1 moc - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 1 mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ntmesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET O	5		
ethyl 3-ethoxypropionate ≥10 - ≤20 FLAMMABLE LIQUIDS - Category 3 n-butyl acetate ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 2 Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 2 Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 MCC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 1,2,4-trimethylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
HNOC - May form explosive peroxides. h-butyl acetate ≥1.0 - ≤5.0 Solvent naphtha (petroleum), ≥1.0 - ≤5.0 Iight aromatic ≥1.0 - ≤5.0 Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 HNOC - Defatting irritant Solvent naphtha (petroleum), light aromatic Solvent naphtha (petroleum), light aromatic Propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 mesitylene ≥1.0 - ≤5.0 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQU			
n-butyl acetate ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 HNOC - Defatting irritant Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 3 mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 3 1,2,4-trimethylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 2 NCC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Cat	ethyl 3-ethoxypropionate	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 3
n-butyl acetate ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 2 Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 1,2,4-trimethylbenzene ≥1.4 FLAMMABLE LIQUIDS - Category 3 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (Inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 2 hNOC - Defatting irritant	5 5. 1		HNOC - May form explosive peroxides.
Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 HNOC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 propylbenzene ≥1.0 - ≤5.0 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 MINOC - Defatting irritant HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (INBLE EXPOSURE (Respiratory tract irritation) - Category 4 sKIN IRRITATION - Category 2 EYE IRRITATION - Category 3 ACUTE TOXICITY (INBLE EXPOSURE (Respiratory tract irritation) - Category 4 sKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY			HNOC - Defatting irritant
Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 HNOC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 propylbenzene ≥1.0 - ≤5.0 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 MINOC - Defatting irritant HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (INBLE EXPOSURE (Respiratory tract irritation) - Category 4 sKIN IRRITATION - Category 2 EYE IRRITATION - Category 3 ACUTE TOXICITY (INBLE EXPOSURE (Respiratory tract irritation) - Category 4 sKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY	n-butyl acetate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
Solvent naphtha (petroleum), ≥1.0 - ≤5.0 INOC - Defatting irritant Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 1 HNOC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 KIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 hNOC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation)	5		
Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 Specific TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 MMOC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 More - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 Maspiration SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 MNOC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 MNOC - Defatting irritant 1.2,4-trimethylbenzene 1.2,4-trimethylbenzene ≤1.4 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 3 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (oral) - Category 3			
Solvent naphtha (petroleum), ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 light aromatic SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 3 ACUTE TOXICITY (inhalation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			
light aromatic SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 1 HNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0	Solvent naphtha (petroleum),	≥1.0 - ≤5.0	
(Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION + GARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 4 SKIN IRRITATION - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 HNOC - Defatting irritant hexam			
sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 BYECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 4 SKIN IRRITATION - Category 2 BYECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0	0		
propylbenzene ≥1.0 - ≤5.0 (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 1 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 SYECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 SYECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 4 SKIN IRRITATION - Category 2 ACUTE TOXICITY (oral) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
ASPIRATION HAZARD - Category 1 hNOC - Defatting irritant propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 1,2,4-trimethylbenzene ≤1.4 I,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 4 hexamethylene-di-isocyanate <1.0			
propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			
propylbenzene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0	propylbenzene	≥1.0 - ≤5.0	
ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
mesitylene ≥1.0 - ≤5.0 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			(Respiratory tract irritation) - Category 3
mesitylene ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			ASPIRATIÓN HAZARD - Category 1
Y SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 1,2,4-trimethylbenzene ≤1.4 1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			HNOC - Defatting irritant
1,2,4-trimethylbenzene≤1.4(Respiratory tract irritation) - Category 3 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2	mesitylene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
HNOC - Defatting irritant1,2,4-trimethylbenzene≤1.41,2,4-trimethylbenzene≤1.4FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritanthexamethylene-di-isocyanate<1.0			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
1,2,4-trimethylbenzene ≤1.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			(Respiratory tract irritation) - Category 3
ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2			HNOC - Defatting irritant
hexamethylene-di-isocyanate <1.0 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2	1,2,4-trimethylbenzene	≤1.4	FLAMMABLE LIQUIDS - Category 3
hexamethylene-di-isocyanate <1.0 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2	-		ACUTE TOXICITY (inhalation) - Category 4
hexamethylene-di-isocyanate <1.0 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2			SKIN IRRITATION - Category 2
hexamethylene-di-isocyanate <1.0			EYE IRRITATION - Category 2A
hexamethylene-di-isocyanate <1.0 HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
hexamethylene-di-isocyanate <1.0 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2			(Respiratory tract irritation) - Category 3
ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2			
ACUTE TOXICITY (inhalation) - Category 1 SKIN IRRITATION - Category 2	hexamethylene-di-isocyanate	<1.0	ACUTE TOXICITY (oral) - Category 4
SKIN IRRITATION - Category 2			ACUTE TOXICITY (dermal) - Category 3
EYE IRRITATION - Category 2A			SKIN IRRITATION - Category 2
			EYE IRRITATION - Category 2A

United States Page: 15/16

Product code 03GY328C COMPONE	AT CURING SOLUTION	Date of issue 20 November 2018 Version 10
Product name 03GY328C	AT CURING SOLUTION CO	OMPONENT
Section 15. Regu	latory information	
	SKIN SPEC	IRATORY SENSITIZATION - Category 1A SENSITIZATION - Category 1A IFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) ratory tract irritation) - Category 3
SARA 313		
Supplier notification	Chemical name : 1/2,4-trimethylbenzene	CAS numberConcentration95-63-60.1 - 1

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

Section 16. Other information

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

Health : 3 * Flammability : 2 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 : 3 Flamma Date of previous issue Organization that prepared the MSDS	bility : 2 Instability : 1 : 7/12/2018 : 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.

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.