SAFETY DATA SHEET



Date of issue/Date of revision28 January 2020Version 15

Section 1. Identification	
Product name	: 03Y098 BASE COMPONENT
Product code	: 03Y098 BASE 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 Dhanay 818 362 6711
Emergency telephone number	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 26.1% (Oral), 34.8% (Dermal), 45.7% (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).

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Section 2. Hazards identification

<u>GHS label elements</u> Hazard pictograms



Other stands		
Signal word	anger	
Hazard statements	lammable liquid and vapor. armful if inhaled. lay cause cancer. lay cause drowsiness or dizziness.	
Precautionary statements		
Prevention	betain special instructions before use. Do not handle until all safety precautions have een read and understood. Wear protective gloves. Wear eye or face protection. /ear protective clothing. Keep away from heat, hot surfaces, sparks, open flames an ther ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting nd all material-handling equipment. Use only non-sparking tools. Take precautionar neasures against static discharge. Keep container tightly closed. Use only outdoors on a well-ventilated area. Avoid breathing vapor.	id J Y
Response	^F exposed or concerned: Get medical attention. IF INHALED: Remove person to esh air and keep comfortable for breathing. Call a POISON CENTER or physician if pu feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. inse skin with water or shower.	
Storage	tore locked up. Store in a well-ventilated place. Keep cool.	
Disposal	ispose of contents and container in accordance with all local, regional, national and iternational regulations.	
Supplemental label elements	anding and grinding dusts may be harmful if inhaled. This product contains crystalling lica which can cause lung cancer or silicosis. The risk of cancer depends on the uration and level of exposure to dust from sanding surfaces or mist from spray pplications. Repeated exposure to high vapor concentrations may cause irritation of he respiratory system and permanent brain and nervous system damage. Inhalation of apor/aerosol concentrations above the recommended exposure limits causes eadaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid	of

contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when

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.

heated.

Section 3. Composition/information on ingredients

Substance/mixture: MixtureProduct name: 03Y098 BASE COMPONENT

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
heptan-2-one	≥10 - ≤18	110-43-0
Wollastonite	≥10 - ≤20	13983-17-0
n-butyl acetate	≥5.0 - ≤10	123-86-4
ethyl 3-ethoxypropionate	≥5.0 - ≤10	763-69-9
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
4-chloro-α,α,α-trifluorotoluene	≥1.0 - ≤5.0	98-56-6
pentane-2,4-dione	≤1.7	123-54-6
2-(2-butoxyethoxy)ethyl acetate	≥1.0 - ≤5.0	124-17-4
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7

SUB codes represent substances without registered CAS Numbers.

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

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

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

Section 4. First aid measures

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

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

Most important symptoms/effects, acute and delayed

Potential acute health e	effects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sy	<u>ymptoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following:
	nausea or vomiting
	headache
	drowsiness/fatigue
	dizziness/vertigo
	unconsciousness
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Section 4. First aid measures

c	irvness
	5
	cracking
Ingestion : N	No specific data.

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds carbonyl halides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

.arge 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.

Product name 03Y098 BASE COMPONENT

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
peptan-2-one	ACGIH TLV (United States, 3/2019).
	TWA: 233 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 465 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
Wollastonite	ACGIH TLV (United States, 3/2019).
	TWA: 1 mg/m³ 8 hours. Form: Inhalable
	fraction
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.
ethyl 3-ethoxypropionate	IPEL (PPG).
	TWA: 50 ppm
	STEL: 100 ppm
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
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Section 8. Exposure controls/personal protection

pentane-2,4-dione	ACGIH TLV (United States, 3/2019).			
	Absorbed through skin.			
	TWA: 25 ppm 8 hours.			
2-(2-butoxyethoxy)ethyl acetate	None.			
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 3/2019).			
	TWA: 0.025 mg/m ³ 8 hours. Form:			
	Respirable OSHA PEL Z3 (United States, 6/2016). TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form:			
	Respirable			
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable			
	OSHA PEL (United States, 5/2018).			
	TWA: 50 µg/m ³ 8 hours. Form: Respirable			
	dust			
Key to abbreviatio	ns			
A = Acceptable Maximum Peak	S = Potential skin absorption			
CGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization			

А	= Acceptable Maximum Peak	S	 Potential skin absorption
ACGIH	 American Conference of Governmental Industrial Hygienists. 	SR	 Respiratory sensitization
С	= Ceiling Limit	SS	 Skin sensitization
F	= Fume	STEL	 Short term Exposure limit values
IPEL	 Internal Permissible Exposure Limit 	TD	= Total dust
OSHA	 Occupational Safety and Health Administration. 	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	atmos the ver protec Refere	product contains ingredients with exposure limits, personal, workplace phere or biological monitoring may be required to determine the effectiveness of ntilation or other control measures and/or the necessity to use respiratory tive equipment. Reference should be made to appropriate monitoring standards. ence to national guidance documents for methods for the determination of dous substances will also be required.
Appropriate engineering controls	other e recom vapor	nly with adequate ventilation. Use process enclosures, local exhaust ventilation or engineering controls to keep worker exposure to airborne contaminants below any mended or statutory limits. The engineering controls also need to keep gas, or dust concentrations below any lower explosive limits. Use explosion-proof tion equipment.
Environmental exposure controls	they co cases,	ions from ventilation or work process equipment should be checked to ensure omply with the requirements of environmental protection legislation. In some fume scrubbers, filters or engineering modifications to the process equipment necessary to reduce emissions to acceptable levels.
Individual protection measur	2	
Hygiene measures	eating, Approj Wash	hands, forearms and face thoroughly after handling chemical products, before , smoking and using the lavatory and at the end of the working period. priate techniques should be used to remove potentially contaminated clothing. contaminated clothing before reusing. Ensure that eyewash stations and safety rs are close to the workstation location.
Eye/face protection	Safety	glasses with side shields.
Skin protection		

Section 8. Exposure controls/personal protection

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

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Solubility	:	Insoluble in the following materials: cold water.		
Density(lbs / gal)	1	10.1		
Relative density	1	1.21		
Vapor density	1	Not available.		
Vapor pressure	1	Not available.		
Evaporation rate	1	Not available.		
Lower and upper explosive (flammable) limits	1	Not available.		
Flammability (solid, gas)	1	Not available.		
Decomposition temperature	1	Not available.		
Auto-ignition temperature	1	Not available.		
Flash point	1	Closed cup: 24.44°C (76°F)		
Boiling point	:	>37.78°C (>100°F)		
Melting point	:	Not available.		
рН	:	Not available.		
Odor threshold	:	Not available.		
Odor	:	Not available.		
Color		Yellow.		
Physical state	14.1	Liquid.		

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	: 432 g/l
% Solid. (w/w)	: 62.92

Section 10. Stabil	ity and reactivity
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
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	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
itanium 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	-
pentane-2,4-dione	LC50 Inhalation Vapor	Rat	5.1 mg/l	4 hours
	LD50 Dermal	Rat	790 mg/kg	-
	LD50 Oral	Rat	570 mg/kg	-
2-(2-butoxyethoxy)ethyl	LC50 Inhalation Dusts and mists	Rat	72500 mg/m ³	4 hours
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Section 11. Toxicological information

acetate						
	LD50 Derr			Rabbit	5.75 g/kg	-
	LD50 Oral			Rat	6500 mg/kg	-
Conclusion/Summary	: There are no data available on the mixture itself.					
rritation/Corrosion						
Conclusion/Summary						
Skin	: There are	e no data a	available on th	ne mixture itsel	f.	
Eyes	: There are	e no data a	available on th	ne mixture itsel	f.	
Respiratory	: There are	e no data a	available on th	ne mixture itsel	f.	
Sensitization						
Conclusion/Summary						
Skin	: There are no data available on the mixture itself.					
Respiratory	: There are no data available on the mixture itself.					
<u>Mutagenicity</u>						
Conclusion/Summary	: There are	e no data a	available on th	ne mixture itsel	f.	
Carcinogenicity						
Conclusion/Summary	: There are	e no data a	available on th	ne mixture itsel	f.	
Classification						
Product/ingredient name	OSHA	IARC	NTP			
Wollastonite	-	3	-			
titanium dioxide	-	2B	-			
crystalline silica, respirable	-	1	Known to b	e a human car	cinogen.	
powder (<10 microns)						
Carcinogen Classification	code:					
IARC: 1, 2A, 2B, 3,	4					
NTP: Known to be	e a human caro	cinogen; Rea	isonably anticip	ated to be a hum	an carcinogen	
OSHA: + Not listed/not regu	ulated:					

Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary

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

Teratogenicity

: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
heptan-2-one n-butyl acetate 4-chloro-α,α,α-trifluorotoluene	Category 3 Category 3 Category 3	Not applicable. Not applicable. Not applicable.	Narcotic effects Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
vstalline silica, respirable powder (<10 microns)	Category 1	Inhalation	Not determined

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Section 11. Toxicological information

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<u>Target organs</u>	: Contains material which causes damage to the following organs: mucous membranes, brain, , central nervous system (CNS). Contains material which may cause damage to the following organs: lungs, the nervous system, peripheral nervous system, upper respiratory tract, immune system, skin, eye, lens or cornea.
Aspiration hazard Not available.	
Information on the likely ro	outes of exposure
Potential acute health eff	-
Eye contact	No known significant effects or critical hazards.
Inhalation	 Hormful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sym	<u>iptoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following:
	nausea or vomiting
	headache drowsiness/fatigue
	dizziness/vertigo
	unconsciousness
Skin contact	: Adverse symptoms may include the following:
	irritation
	dryness
	cracking
Ingestion	No specific data.
	ects and also chronic effects from short and long term exposure
Conclusion/Summary	: Phere are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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 effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.

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Section 11. Toxicological information

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: 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	<u>ity</u>

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
3Y098 BASE COMPONENT	5028.2	22474.9	N/A	37.3	4.3
heptan-2-one	1600	10206	N/A	16.7	1.5
n-butyl acetate	10768	N/A	N/A	N/A	N/A
ethyl 3-ethoxypropionate	3200	10000	N/A	N/A	N/A
4-chloro-α,α,α-trifluorotoluene	13000	2500	N/A	33.08	N/A
pentane-2,4-dione	570	790	N/A	5.1	N/A
2-(2-butoxyethoxy)ethyl acetate	6500	5750	N/A	N/A	72.5

Section 12. Ecological information

Toxicity

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

Persistence and degradability

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Section 12. Ecological information

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	1.98	-	low
n-butyl acetate	1.78	-	low
pentane-2,4-dione	0.4	-	low
2-(2-butoxyethoxy)ethyl acetate	1.7	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

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Disposal methods
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: 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	III	111	III
Environmental hazards Marine pollutant substances	No. Not applicable.		No. Not applicable.

Additional information

DOT	: None identified.
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.

4-chloro-α,α,α-trifluorotolι pentane-2,4-dione	(b) - Chemical export notification: lene a)2 - Final significant new use rules:	One time notification One time notification Listed
SARA 304 RQ	: Not applicable.	
Composition/information	<u>n on ingredients</u>	
No products were found.		
SARA 311/312		
Classification	 AMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINC Category 3 HNOC - Defatting irritant HNOC - May form explosive peroxides. 	GLE EXPOSURE) (Narcotic effects) -

Page: 14/16 **United States**

Section 15. Regulatory information

Composition/information on ingredients	5

Name	%	Classification
heptan-2-one	≥10 - ≤18	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
n-butyl acetate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
ethyl 3-ethoxypropionate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
		HNOC - May form explosive peroxides.
		HNOC - Defatting irritant
titanium dioxide	≥1.0 - ≤5.0	CARCINOGENICITY - Category 2
4-chloro-α,α,α-trifluorotoluene	≥1.0 - ≤5.0	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
pentane-2,4-dione	≤1.7	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 3
2 (2 butery ethery) othyl costate	≥1.0 - ≤5.0	ACUTE TOXICITY (inhalation) - Category 3
2-(2-butoxyethoxy)ethyl acetate	≤1.0 - ≥0.0	HNOC - May form explosive peroxides. HNOC - Defatting irritant
crystalline silica, respirable	<1.0	CARCINOGENICITY - Category 1A
powder (<10 microns)	N	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) (inhalation) - Category 1
		LAR OSURE (IIIIIdialion) - Galegury 1

SARA 313

Supplier notification

Chemical name

: 2-(2-butoxyethoxy)ethyl acetate

CAS number 124-17-4

Concentration

1 - 5

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

California Prop. 65

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

Section 16. Other information

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

Health : Flammability : 3 Physical hazards : 2 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.

Product name 03Y098 BASE COMPONENT

Section 16. Other information

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 : 9/24/2019 : 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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available 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 6

Section 1. Identification		
Product name	: 03Y098CAT CURING SOLUTION COMPONENT	
Product code	: 03Y098CAT CURING SOLUTION COMPONENT	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: 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 03Y098CAT 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.

Product name 03Y098CAT CURING SOLUTION COMPONENT

Section 3. Composition/information on ingredients

Substance/mixture

Product name

: Mixture

: 03Y098CAT 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 sympton	ns/effects, acute and delayed
Potential acute health e	ffects
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/sy	<u>imptoms</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	1	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. 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: 35°C (95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. 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).
in congroup of the second s	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).
nexametryiene-di-isocyanate	TWA: $0.03 \text{ mg/m}^3 8 \text{ hours.}$
	TWA: 0.005 ng/m 8 hours.
	OSHA PEL (United States, 5/2018).
	Absorbed through skin.
	U U U U U U U U U U U U U U U U U U U
	TWA: 5 mg/m³, (as CN) 8 hours.
Key to abbreviation	
A = Acceptable Maximum Peak	S = Potential skin absorption
CGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization SS = Skin sensitization
C = Ceiling Limit	

- С
- F = Fume 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 03Y098CAT 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>ures</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

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
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Product name 03Y098CAT 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	-
0	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), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
•	LD50 Oral	Rat	8400 mg/kg	-
propylbenzene	LD50 Oral	Rat	6040 mg/kg	-
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
-	LD50 Oral	Rat	5000 mg/kg	-
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.
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Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Category
Hexamethylene 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/	<u>symptoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
	United States Page: 11/16

Section 11. Toxicological information

Ingestion	: No specific data.		
Delayed and immediate effe	s and also chronic effects from short and long term exposure		
Conclusion/Summary	: There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of exposure and eye contact.		
Short term exposure			
Potential immediate effects	There are no data available on the mixture itself.		
Potential delayed effects Long term exposure	There are no data available on the mixture itself.		
Potential immediate effects	There are no data available on the mixture itself.		
Potential delayed effects Potential chronic health effe	: There are no data available on the mixture itself.		
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. 		
Carcinogenicity	No known significant effects or critical hazards.		
Mutagenicity	No known significant effects or critical hazards.		
Teratogenicity	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	Ϋ́		
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		

United States Page: 12/16

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	111	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 SIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (Inhalation) - Category 4 KIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 4 NKIN IRRITATION - Category 2 SPECIF			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 SIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (Inhalation) - Category 4 KIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Respiratory tract irritation) - Category 4 NKIN IRRITATION - Category 2 SPECIF	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 1 HNOC - 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 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 KIN IRRITATION - Category 2 EYE IRRITATION - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (ormal) - Category 3 ACU	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 (oral) - Category 3 HNOC - Defatting irritant ACUTE TOXIC			
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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 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 ACUTE TOXICITY (inhalation) - Category 3 HNOC - Defatting irritant hexamethylene-di-isocyanate <1.0			
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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
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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)
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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

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SKIN SENSIT SPECIFIC TA	DRY SENSITIZATION - Category 1A ITIZATION - Category 1A TARGET ORGAN TOXICITY (SINGLE EXPOSURE / tract irritation) - Category 3
nical name	CAS number Concentration 95-63-6 0.1 - 1
	SKIN SENS SPECIFIC 1 (Respiratory

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 : 7/24/2018 : 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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Indicates information that has changed from previously issued version.

Disclaimer

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