# **SAFETY DATA SHEET**



Date of issue/Date of revision22 June 2021Version 8.01

Section 1. Identification		
Product name	: CA8201/F13538 BASE COMPONENT	
Product code	: CA8201/F13538 BASE COMPONENT	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342	
Emergency telephone number	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 9.2% (oral), 28% (dermal), 56.4% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Warning

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### Section 2. Hazards identification

Hazard statements	: Flammable liquid and vapor. Harmful if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (lungs)
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture
Product name

- : Mixture
- : CA8201/F13538 BASE COMPONENT

Ingredient name	%	CAS number
barium sulfate	≥20 - ≤30	7727-43-7
heptan-2-one	≥10 - ≤17	110-43-0
xylene	≥1.0 - ≤4.0	1330-20-7
pentan-2-one	≥0.10 - ≤2.3	107-87-9
bismuth vanadium tetraoxide (respirable fraction)	≥1.0 - ≤5.0	14059-33-7
ethylbenzene	<1.0	100-41-4
4-methylpentan-2-one	<1.0	108-10-1
toluene	<1.0	108-88-3

SUB codes represent substances without registered CAS Numbers.

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

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.

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### Section 3. Composition/information on ingredients

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
Inhalation	<ul> <li>apart for at least 10 minutes and seek immediate medical advice.</li> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

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

#### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	toms
Eye contact	: No specific data.
Inhalation	<ul> <li>Adverse symptoms may include the following: reduced fetal weight</li> </ul>
	increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	irritation
	dryness
	cracking
	reduced fetal weight
	increase in fetal deaths
Ingention	skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Indication of immediate med	ical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms

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.

### Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

#### Section 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and from the chemical 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 may include the following materials: carbon oxides decomposition products nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides **Special protective actions** : 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 for fire-fighters training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. : Fire-fighters should wear appropriate protective equipment and self-contained breathing **Special protective** apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

### 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

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# Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions Advice on general	<ul> <li>Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is</li> </ul>
occupational hygiene	handled, stored and processed. Worker's 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.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
barium sulfate	ACGIH TLV (United States, 3/2020).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
heptan-2-one	ACGIH TLV (United States, 3/2020).
	TWA: 233 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 465 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
xylene	ACGIH TLV (United States, 3/2020).
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
pentan-2-one	OSHA PEL (United States, 5/2018).
	TWA: 700 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2020).
	STEL: 150 ppm 15 minutes.
bismuth vanadium tetraoxide (respirable fraction)	None.
ethylbenzene	ACGIH TLV (United States, 3/2020).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
4-methylpentan-2-one	ACGIH TLV (United States, 3/2020).
	STEL: 75 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 410 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2020).
	TWA: 20 ppm 8 hours.
Key to abbreviations	
A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization

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# Section 8. Exposure controls/personal protection

F	=	Fume

IPEL = Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration.

R = Respirable Z = OSHA 29 CFF

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

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

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

will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety glasses with side shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves: Recommended: neoprene, natural rubber (latex), polyvinyl alcohol (PVA), Viton® Not recommended: nitrile 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	<ul> <li>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.</li> </ul>
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- TD = Total dust
- TLV = Threshold Limit Value
- TWA = Time Weighted Average

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# Section 8. Exposure controls/personal protection

Respiratory protection : Respirator selection must be based on known or ar hazards of the product and the safe working limits of are exposed to concentrations above the exposure certified respirators. Use a properly fitted, air-purify with an approved standard if a risk assessment ind The respiratory protection shall be in accordance to	of the selected respirator. If workers limit, they must use appropriate, ring or air-fed respirator complying icates this is necessary.
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# Section 9. Physical and chemical properties

An	ne	ara	inc	e
		are		-

Physical state	1	Liquid.
Color	1	Yellow.
Odor	1	Not available.
Odor threshold	:	Not available.
рН	1	Not applicable.
Melting point	4	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	1	Closed cup: 26.67°C (80°F)
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Not available.
(flammable) limits		
Evaporation rate	4	Not available.
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Relative density	:	1.45
Density(lbs / gal)	1	12.1
Solubility	1	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	1	Not applicable.
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
VOC	:	339 g/l
% Solid. (w/w)	1	76.64

# Section 10. Stability and reactivity

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Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

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# Section 10. Stability and reactivity

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
   : Depending on conditions, decomposition products may include the following materials:
- products carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
pentan-2-one	LC50 Inhalation Vapor	Rat	25.5 mg/l	4 hours
	LD50 Dermal	Rabbit	6500 mg/kg	-
	LD50 Oral	Rat	1600 mg/kg	-
bismuth vanadium tetraoxide (respirable fraction)	LC50 Inhalation Dusts and mists	Rat	>5.15 mg/l	4 hours
	LD50 Oral	Rat	>5 g/kg	_
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	_
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Result	Species	Score	Exposure	Observation		
Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-		
		•				
: There are no data availa	ble on the mixt	ure itself.				
: There are no data available on the mixture itself.						
: There are no data available on the mixture itself.						
	Skin - Moderate irritant : There are no data availa : There are no data availa	Skin - Moderate irritant Rabbit : There are no data available on the mixt : There are no data available on the mixt	Skin - Moderate irritant       Rabbit       -         : There are no data available on the mixture itself.       : There are no data available on the mixture itself.	Skin - Moderate irritant       Rabbit       -       24 hours 500 mg         : There are no data available on the mixture itself.       : There are no data available on the mixture itself.		

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# Section 11 Toxicological information

Section 11. Toxico						
Skin	: There are	e no data a	vailable	on the mixture	itself.	
Respiratory	: There are	e no data a	vailable	on the mixture	itself.	
<u>Mutagenicity</u>						
<b>Conclusion/Summary</b>	: There are	e no data a	vailable	on the mixture	itself.	
Carcinogenicity						
<b>Conclusion/Summary</b>	: There are	e no data a	vailable	on the mixture	itself.	
<b>Classification</b>						
Product/ingredient name	OSHA	IARC	NTP			
xylene	-	3	-			
ethylbenzene	-	2B	-			
4-methylpentan-2-one	-	2B	-			
toluene	-	3	-			
Carcinogen Classification	code:					
OSHA: + Not listed/not regu <u>Reproductive toxicity</u> Conclusion/Summary		no data av	vailable c	on the mixture if	tself	
Teratogenicity	. more are					
	• There are	no data av	vailable c	on the mixture if	teolf	
Specific target organ toxicity						
Name				Category	Route of exposure	Target organs
heptan-2-one				Category 3	-	Narcotic effects
xylene				Category 3	-	Respiratory tract irritation
pentan-2-one			1	Category 3	-	Respiratory tract irritation
				Category 3		Narcotic effects
4-methylpentan-2-one				Category 3	-	Respiratory tract irritation
toluene				Category 3	-	Narcotic effects
Specific target organ toxicity	(repeated e	exposure)				
Namo				Cotogony	Bouto of	Torget ergene

Name		Route of exposure	Target organs
bismuth vanadium tetraoxide (respirable fraction)	Category 2	-	lungs
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2	-	-

Target organs

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

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

# Section 11. Toxicological information

#### Aspiration hazard

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

#### Information on the likely routes of exposure

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Potential acute health effect	<u>ts</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>toms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	irritation
	dryness cracking
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
•	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself. Exposure to component solvent vapor
	concentrations in excess of the stated occupational exposure limit may result in adverse
	health effects such as mucous membrane and respiratory system irritation and adverse
	effects on the kidneys, liver and central nervous system. Symptoms and signs include
	headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases,
	loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent
	vapors in combination with constant loud noise can cause greater hearing loss than
	expected from exposure to noise alone. If splashed in the eyes, the liquid may cause
	irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.
	This takes into account, where known, delayed and immediate effects and also chronic
	effects of components from short-term and long-term exposure by oral, inhalation and
	dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	

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# Section 11. Toxicological information

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	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	<ul> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> </ul>
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Numerical measures of toxic	nity.

#### Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
CA8201/F13538 BASE COMPONENT	8483.6	6449.9	N/A	35.7	3.5
barium sulfate	N/A	2500	N/A	N/A	N/A
heptan-2-one	1600	10206	N/A	16.7	1.5
xylene	4300	1700	N/A	11	1.5
pentan-2-one	1600	6500	N/A	25.5	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
4-methylpentan-2-one	2080	N/A	N/A	12.3	1.5
toluene	5580	8390	N/A	49	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
bismuth vanadium tetraoxide (respirable fraction)	Acute LC50 10000 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
▶ preptan-2-one	OECD 310	69 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-

United States	Page: 12/17

## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
heptan-2-one	-	-	Readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily
4-methylpentan-2-one	-	-	Readily
toluene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	2.26	-	low
xylene	3.12	7.4 to 18.5	low
pentan-2-one	0.91	-	low
bismuth vanadium tetraoxide (respirable fraction)	-	<14	low
ethylbenzene	3.6	79.43	low
4-methylpentan-2-one	1.9	-	low
toluene	2.73	8.32	low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

**Disposal methods** 

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

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	111	Ш	111
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (Ibs)	3171.5	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

#### Additional information

DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

#### United States

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

United States - TSCA 5(a)2 - Proposed significant new use rules: pentane-2,4-dione

Listed

#### SARA 302/304

SARA 304 RQ : Not applicable.

#### Composition/information on ingredients

No products were found.

#### SARA 311/312

Date of issue 22 June 2021

### Product name CA8201/F13538 BASE COMPONENT

# Section 15. Regulatory information

Classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
heptan-2-one	≥10 - ≤17	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
xylene	≥1.0 - ≤4.0	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1
pentan-2-one	≥0.10 - ≤2.3	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
bismuth vanadium tetraoxide	≥1.0 - ≤5.0	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
(respirable fraction) ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
4-methylpentan-2-one	<1.0	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant
toluene	<1.0	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
		United States Page: 15/17

#### Date of issue 22 June 2021

### Section 15. Regulatory information

		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
6	ADA 242	

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

	Chemical name	<u>CAS number</u>	<b>Concentration</b>
Supplier notification	: bismuth vanadium tetraoxide ( > 10 microns)	14059-33-7	10 - 30
	xylene	1330-20-7	1 - 5
	bismuth vanadium tetraoxide (respirable fraction)	14059-33-7	1 - 5
	ethylbenzene	100-41-4	0.1 - 1
	4-methylpentan-2-one	108-10-1	0.1 - 1

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

#### California Prop. 65

**WARNING**: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

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

```
Health : 2 * Flammability : 3 Physical hazards : 0
```

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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

National Fire Protection Association (U.S.A.)			
Health : 2 Flamma	ability : 3 Instability : 0		
Date of previous issue	: 6/12/2021		
Organization that prepared the SDS	: EHS		
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations</li> </ul>		

Indicates information that has changed from previously issued version.

#### **Disclaimer**

# **SAFETY DATA SHEET**



Date of issue/Date of revision24 August 2021Version 8.04

Section 1. Identification		
Product name	: CA8000D ACTIVATOR COMPONENT	
Product code	: CA8000D ACTIVATOR 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	: Hardener.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 818 362 6711	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3         ACUTE TOXICITY (inhalation) - Category 4         EYE IRRITATION - Category 2A         SKIN SENSITIZATION - Category 1         CARCINOGENICITY - Category 2         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3     </li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1.4%
GHS label elements	
Hazard pictograms	

### Product name CA8000D ACTIVATOR COMPONENT

# Section 2. Hazards identification

Signal word	Warnin	g
Hazard statements	May ca Causes Harmfu May ca	able liquid and vapor. use an allergic skin reaction. s serious eye irritation. Il if inhaled. use respiratory irritation. cted of causing cancer.
Precautionary statements		
Prevention	been re protecti sources Use no in a we	special instructions before use. Do not handle until all safety precautions have ead and understood. Wear protective gloves, protective clothing and eye or face ion. Keep away from heat, hot surfaces, sparks, open flames and other ignition s. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. n-sparking tools. Take action to prevent static discharges. Use only outdoors or Il-ventilated area. Avoid breathing vapor. Wash thoroughly after handling. ninated work clothing must not be allowed out of the workplace.
Response	person doctor i clothing Wash v attentio lenses,	besed or concerned: Get medical advice or attention. IF INHALED: Remove to fresh air and keep comfortable for breathing. Call a POISON CENTER or if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated g. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: with plenty of water. If skin irritation or rash occurs: Get medical advice or on. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact if present and easy to do. Continue rinsing. If eye irritation persists: Get medical or attention.
Storage	Store lo cool.	ocked up. Store in a well-ventilated place. Keep container tightly closed. Keep
Disposal		e of contents and container in accordance with all local, regional, national and tional regulations.
Supplemental label elements	cause i damagu limits ca death. S the pro similar respirat chest. S to atmo permar asthma any pro	re-sensitive material. Repeated exposure to high vapor concentrations may rritation of the respiratory system and permanent brain and nervous system e. Inhalation of vapor/aerosol concentrations above the recommended exposure auses headaches, drowsiness and nausea and may lead to unconsciousness or Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on perties of the isocyanate components and considering toxicological data on mixtures, this mixture may cause acute irritation and/or sensitization of the tory system, leading to an asthmatic condition, wheezing and tightness of the Sensitized persons may subsequently show asthmatic symptoms when exposed opheric concentrations well below the OEL. Repeated exposure may lead to nent respiratory disability. Persons with a history of skin sensitization problems or a, allergies or chronic or recurrent respiratory disease should not be employed in occess in which this product is used. Avoid contact with skin and clothing. Wash ghly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	certain	rm explosive peroxides. Hazardous reactions or instability may occur under conditions of storage or use. Prolonged or repeated contact may dry skin and rritation.

### Section 3. Composition/information on ingredients

Substance/mixture Product name : Mixture

: CA8000D ACTIVATOR COMPONENT

Ingredient name	%	CAS number
Hexamethylene diisocyanate, oligomers.	≥50 - ≤71	28182-81-2
n-butyl acetate	≥10 - ≤18	123-86-4
4-methylpentan-2-one	≥10 - ≤18	108-10-1
ethyl 3-ethoxypropionate	≥5.0 - ≤10	763-69-9
pentane-2,4-dione	≥1.0 - ≤5.0	123-54-6
Solvent naphtha (petroleum), light aromatic	≤1.4	64742-95-6

SUB codes represent substances without registered CAS Numbers.

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

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

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

### Section 4. First aid measures

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

#### Description of necessary first aid measures

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

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

Potential acute health	<u>n effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

#### Product code CA8000D ACTIVATOR COMPONENT Product name CA8000D ACTIVATOR COMPONENT

### Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
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 <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

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

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. May form explosive peroxides. Keep away from combustible materials. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Do not store above the following temperature: $50^{\circ}C$ ( $122^{\circ}F$ ). 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

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

# Product name CA8000D ACTIVATOR COMPONENT

### Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits				
Hexamethylene diisocyanate, oligomers.	IPEL (-).				
, , <del>.</del> ,	TWA: 0.5 mg/m <sup>3</sup>				
	STEL: 1 mg/m <sup>3</sup>				
n-butyl acetate	OSHA PEL (United States, 5/2018).				
,	TWA: 710 mg/m <sup>3</sup> 8 hours.				
	TWA: 150 ppm 8 hours.				
	ACGIH TLV (United States, 3/2020).				
	STEL: 150 ppm 15 minutes.				
	TWA: 50 ppm 8 hours.				
4-methylpentan-2-one	ACGIH TLV (United States, 3/2020).				
	STEL: 75 ppm 15 minutes.				
	TWA: 20 ppm 8 hours.				
	OSHA PEL (United States, 5/2018).				
	TWA: 410 mg/m³ 8 hours.				
	TWA: 100 ppm 8 hours.				
ethyl 3-ethoxypropionate	IPEL (-).				
	TWA: 50 ppm				
	STEL: 100 ppm				
pentane-2,4-dione	ACGIH TLV (United States, 3/2020).				
	Absorbed through skin.				
	TWA: 25 ppm 8 hours.				
Solvent naphtha (petroleum), light aromatic	None.				
Key to abbre					
A = Acceptable Maximum Peak	S = Potential skin absorption				
ACGIH= American Conference of Governmental Industrial Hygienists.C= Ceiling Limit	SR = Respiratory sensitization 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 Sub	stances				
onsult local authorities for acceptable exposure limits.					
	dients 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 a	lso be required.				
	ilation. Use process enclosures, local exhaust ventilation				
	other engineering controls to keep worker exposure to airborne contaminants below any				
	mits. The engineering controls also need to keep gas,				
	below any lower explosive limits. Use explosion-proof				
ventilation equipment.					
	r work process equipment should be checked to ensure				
	they comply with the requirements of environmental protection legislation. In some				
	s or engineering modifications to the process equipment				

will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

United States Page: 7/17

# Section 8. Exposure controls/personal protection

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: 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	: Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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	The respiratory protection shall be in accordance to 29 CFR 1910.134. 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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Clear.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: 117.22 to 165°C (243 to 329°F)
Flash point	: Closed cup: 28.89°C (84°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.

### Product name CA8000D ACTIVATOR COMPONENT

## Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.99
Density(lbs / gal)	: 8.26
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
VOC	: 485 g/l
% Solid. (w/w)	: 51.31

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

# Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate,	LD50 Dermal	Rabbit	>2000 mg/kg	-
oligomers.				
-	LD50 Oral	Rat - Female	>2500 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	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
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# Section 11. Toxicological information

	<u> </u>					
	LD50 Oral			Rat	2.08 g/kg	-
ethyl 3-ethoxypropionate	LD50 Dern	nal		Rabbit	>5 g/kg	-
	LD50 Oral			Rat	3200 mg/kg	-
pentane-2,4-dione	LC50 Inha		r	Rat	5.1 mg/l	4 hours
	LD50 Dern	nal		Rat	790 mg/kg	-
	LD50 Oral			Rat	570 mg/kg	-
Solvent naphtha (petroleum),	LD50 Dern	nal		Rabbit	3.48 g/kg	-
light aromatic	LD50 Oral			Rat	9400 mg/kg	
	LD50 Oral			Rai	8400 mg/kg	-
<b>Conclusion/Summary</b>	: There are	e no data a	vailable on th	e mixture itself.		
Irritation/Corrosion						
Conclusion/Summary						
Skin	: There are	There are no data available on the mixture itself.				
Eyes	: There are	There are no data available on the mixture itself.				
Respiratory	: There are	There are no data available on the mixture itself.				
Sensitization						
Conclusion/Summary						
Skin	: There are	e no data a	vailable on th	e mixture itself.		
Respiratory	: There are	e no data av	vailable on th	e mixture itself.		
<u>Mutagenicity</u>						
<b>Conclusion/Summary</b>	: There are	e no data a	vailable on th	e mixture itself.		
<b>Carcinogenicity</b>						
<b>Conclusion/Summary</b>	: There are	e no data a	vailable on th	e mixture itself.		
<b>Classification</b>						
Product/ingredient name	OSHA	IARC	NTP			

Product/ingredient name	OSHA	IARC	NTP
4-methylpentan-2-one	-	2B	-

Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### **Reproductive toxicity**

Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Specific target organ toxicity	<u>/ (single exposure)</u>

### Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers.	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

Not available.

Target organs

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

nervous system, liver, upper respiratory tract, skin, eye, lens or cornea.

#### Aspiration hazard

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

<u>FOIEIIIIai acule nealli</u>	
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/s	symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
<b>Delayed and immediate</b>	effects and also chronic effects from short and long term exposure

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# Section 11. Toxicological information

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	1	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health effe	ect	<u>S</u>
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	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

### Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
CA8000D ACTIVATOR COMPONENT	2819.6	3704.2	N/A	15	2.3
Hexamethylene diisocyanate, oligomers.	2500	2500	N/A	11	1.5
n-butyl acetate	10768	N/A	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	12.3	1.5
ethyl 3-ethoxypropionate	3200	N/A	N/A	N/A	N/A
pentane-2,4-dione	570	790	N/A	5.1	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A

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# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate, oligomers.	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
n-butyl acetate 4-methylpentan-2-one ethyl 3-ethoxypropionate Solvent naphtha (petroleum), light aromatic	Acute EC50 >100 mg/l Acute LC50 >100 mg/l Acute LC50 18 mg/l Acute LC50 >179 mg/l Acute LC50 60.9 mg/l Acute LC50 8.2 mg/l	Daphnia - daphnia magna Fish - Danio rerio (zebra fish) Fish Fish Fish Fish	48 hours 96 hours 96 hours 96 hours 96 hours 96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Rea	dily - 28 days	-		-
4-methylpentan-2-one	OECD 301F	83 % - Rea	dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Hexamethylene diisocyanate, oligomers.	-		-		Not read	dily
n-butyl acetate	-		-		Readily	
4-methylpentan-2-one	-		-		Readily	
ethyl 3-ethoxypropionate	-		-		Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene diisocyanate, oligomers.	5.54	3.2	low
n-butyl acetate 4-methylpentan-2-one ethyl 3-ethoxypropionate pentane-2,4-dione	2.3 1.9 1.47 0.68	- - -	low low low low

### <u>Mobility in soil</u>

Soil/water partition coefficient (Koc) : Not available.

# Section 13. Disposal considerations

**Disposal methods** 

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

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	Ш	Ш	Ш	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (lbs)	27503.7	Not applicable.	Not applicable.	
RQ substances	(n-butyl acetate, 4-methylpentan-2-one)	Not applicable.	Not applicable.	

#### **Additional information**

- DOT
- : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- IMDG : 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.

### Product code CA8000D ACTIVATOR COMPONENT Product name CA8000D ACTIVATOR COMPONENT

14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

#### United States

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

United States - TSCA 12(b) - Chemical export notification: pentane-2,4-dione	One time notification
United States - TSCA 5(a)2 - Proposed significant new use rules: pentane-2,4-dione	Listed
SADA 202/204	

#### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

#### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	HNOC - Defatting irritant
	HNOC - May form explosive peroxides.

#### **Composition/information on ingredients**

Name	%	Classification
Hexamethylene diisocyanate, oligomers.	≥50 - ≤71	COMBUSTIBLE DUSTS ACUTE TOXICITY (inhalation) - Category 4 SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
n-butyl acetate	≥10 - ≤18	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
4-methylpentan-2-one	≥10 - ≤18	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant
ethyl 3-ethoxypropionate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3 HNOC - Defatting irritant HNOC - May form explosive peroxides.
pentane-2,4-dione	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4
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### Section 15. Regulatory information

Solvent nonbthe (notroloum)	-1.1	ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3
Solvent naphtha (petroleum), light aromatic	≤1.4	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 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant

#### **SARA 313**

#### **Chemical name**

**Supplier notification** 

: 4-methylpentan-2-one

**Concentration** CAS number 108-10-1 10 - 30

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

#### California Prop. 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

# Section 16. Other information

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

3 Flammability : 3 Physical hazards : Health : 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.

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National Fire Protection Asso	ociation (U.S.A.)			
Health : 3 Flammability : 3 Instability : 1				
Date of previous issue	: 6/22/2021			
Organization that prepared the SDS	: EHS			
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations			
Indicates information that	has abanged from providually issued version			

#### Indicates information that has changed from previously issued version.

**Disclaimer** 

# Product codeCA8000D ACTIVATOR COMPONENTDaProduct nameCA8000D ACTIVATOR COMPONENT

# Section 16. Other information

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.

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