# SAFETY DATA SHEET



Date of issue/Date of revision 22 July 2020

Version 8

Product type

# Section 1. Identification

CA8000/B900B BASE COMPONENT Product code CA8000/B900B BASE COMPONENT

: Liquid.

Other means of identification : Not available

Relevant identified uses of the substance or mixture and uses advised against

Mdustrial applications. Product use

Use of the substance/ : Coating. mixture Uses advised against : Not applicable

Manufacturer

PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 818 362 6711 (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

Emergency telephone number

#### Section 2. Hazards identification

Classification of the

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

FLAMM-BLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4

EYE IRRITATION - Category 2A

CARCINGENICITY - Category 2A

CARCINGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Percentage of the mixture consisting of ingradientless of information acute toxicity 14, 156.

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity. 34.1% (Oral), 34.1% (Dermal), 87.9% (Inhalation)

GHS label elements Hazard pictograms





Signal word : Warning

> United States Page: 1/15

Product code	CA8000/B900B BASE COMPONENT	Date of issue 22 July 2020	Version 1
Product name	CARODO/ROOR BASE COMPONENT		

#### 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 apart for at least 10 minutes and seek immediate medical advice.
Remove to fresh ar, Keep person warm and strest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personner.
Remove contaminated clothing and shoes, Wash skin thoroughly with scap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Skin contact

Ingestion If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest, Do NOT induce vomitting.

Most important symptoms/effects, acute and delayed

Potential acute health effects
Eye contact

Causes serious eye irritation Inhalation

Hamful if inhaled. May cause respiratory irritation.
Defatting to the skin. May cause skin dryness and irritation.
No known significant effects or critical hazards. Skin contact

Over-exposure signs/symptoms

Inhalation

Eye contact : Adverse symptoms may include the following pain or irritation

redness

Adverse symptoms may include the following respiratory tract irritation

coughing

: Adverse symptoms may include the following: irritation

dryness cracking No specific data.

Ingestion

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments No specific treatment

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)

United States Page: 3/15 Product code CA8000/B900B BASE COMPONENT Date of issue 22 July 2020 Version 8 Product name CA8000/B900B BASE COMPONENT

### Section 2. Hazards identification

Flammable liquid and Causes serious eye irritation Harmful if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

Precautionary statements

Response

Ditain 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. Resp away from heal 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. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling.

in a wein-reminate a river, avoid blearning vapor, visas moroughly after handing. F 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 feet inwell. If PON SKIN for half; Take of firmediately all contaminate clothing. Rinse skin with water. IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists. Get medical advice or attention.

Storage Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep Loos

Dispose of contents and container in accordance with all local, regional national and

Supplemental label elements

infernational regulations,

Repeated exposure to high vapor concentrations may cause irritation of the respiratory
system and permanent brain and nervous system damage. Inhalation of vapor/aerosol
concentrations above the recommended exposure limits causes headaches,
drowsiness and nauses and may lead to unconsciousness or death. Avoid contact with
skin and clothing. Wash thoroughly after handling. Emist toxic furnes when heated.

Hazards not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

: CA8000/B900B BASE COMPONENT Product name

Ingredient name	%	CAS number
2.6-dimethylheptan-4-one	≥20 - ≤50	108-83-8
ethyl acetate pentane-2,4-dione	≥10 - ≤16	141-78-6
heptan-2-one	≥1.0 - ≤5.3 ≥0.10 - ≤2.8	123-54-6
4-methylpentan-2-one	<1.0	110-43-0
ethylbenzene	<1.0	100-41-4

SUB codes represent substances without registered CAS Numbers

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

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

United States	Page: 2/15

Product code	CA8000/B900B BASE CO	OMPONENT	Date of issue 22.	July 2020	Version 8
Product name	CA8000/B900B BASE CO	OMPONENT			

# Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing : Use dry chemical, CO2, water spray (fog) or foam. media

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. Decomposition products may include the following materials: earbon oxides

Hazardous thermal decomposition products

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 training. Move containers from fire erael if this can be done without risk. Use water spray to keep fire-exposed containers cool, Fire-fighters should were 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

e <u>equipment</u> and <u>emergency procedures</u>

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep undecessary and unprotected personnel from entering. Do not louch or walk through spilled material. Shut of all ignition sources. No flares smoking or flames in hazard area, Avoid breathing yappor or mist, Provide actiquate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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".

For emergency responders

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 Large spill

Intallment and cleaning up:

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. Afternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from typind, Prevent entity into severs, water courses basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combinistible, absorbent material e.g. sand, earth, vermiculile or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a Incensed waste disposal contractor. Containinated absorbert material may pose the same hazard as the spilled product. Note see Section 1 for emergency contact

United States Page: 4/15

Product code CA8000/B9 Product name CA8000/B9				Jate of ISSUe	22 July 2020	Version 8
Section 11. Toxic	ologica	l inforn	nation			
ethylbenzene	LD50 Or LC50 Ini LD50 De LD50 Or	halation Vapo	or	Rat Rat Rabbit Rat	2.08 g/kg 17.8 mg/l 17.8 g/kg 3.5 g/kg	4 hours
Conclusion/Summary	: There	are no data a	vailable on th	e mixture itse	lf.	
Irritation/Corrosion						
Conclusion/Summary						
Skin	: There a	ere no data a	vailable on th	e mixture itse	lf.	
Eyes	: There a	are no data a	vailable on th	e mixture itse	lf,	
Respiratory	: There a	re no data a	vailable on th	e mixture itse	lf.	
Sensitization						
Conclusion/Summary						
Skin	: There a	ire no data a	vailable on th	e mixture itsel	f.	
Respiratory	: There a	re no data a	vailable on th	e mixture itsel	f.	
dutagenicity						
Conclusion/Summary	: There a	re no data a	vailable on th	e mixture itsel	f.	
Carcinogenicity						
Conclusion/Summary	: There a	re no data a	vailable on th	e mixture itsel	f,	
Classification						
Product/ingredient name	OSHA	IARC	NTP			
4-methylpentan-2-one	1	2B				

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

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

Specific target organ toxicity (single

Name	Category	Route of exposure	Target organs
2,6-dimethylheptan-4-one	Category 3	**	Respiratory tract
ethyl acetate heptan-2-one	Category 3	-	Narcotic effects
	Category 3		Narcotic effects
4-methylpentan-2-one	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

United States Page: 9/15

Product code	CA8000/B900B BASE COMPONENT	Date of issue	22 July 2020	Version
Product name	CA8000/B900B BASE COMPONENT			

# Section 11. Toxicological information

: There are no data available on the mixture itself. Potential delayed effects : There are no data available on the mixture itself Long term exposure
Potential immediate : There are no data available on the mixture itself.

effects

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

General

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Carcinogenicity

: No known significant effects or critical hazards

Mutagenicity Reproductive toxicity : No known significant effects or critical hazards

Numerical measures of toxicity

Product/ingredient name	Oral (mg/ kg)	Dermai (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg
CABOO/IBOOD BASE COMPONENT 2.8-dimethylheptan-4-one ethyl acetate pentane-2,4-dione heptan-2-one 4-methylpentan-2-one ethylbenzene	7297.2 9750 5620 570 1600 2080 3500	10398.5 16000 N/A 790 10206 N/A 17800	N/A N/A N/A N/A N/A N/A	10,6 N/A N/A 5.1 16,7 12,3 17.8	8.8 N/A N/A N/A 1.5 1.5

#### Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
heptan-2-one 4-methylpentan-2-one	OECD 310 OECD 301F	69 % - Readily - 26 days 83 % - Readily - 26 days	į	-

United States

Page: 11/15

Product code CA8000/B900B BASE COMPONENT Date of issue 22 July 2020 Product name CA8000/B900B BASE COMPONENT Section 11. Toxicological information Target organs Name ethylbenzene Category 2 Contains material which causes damage to the following organs: mucous membranes, brain, .

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

Aspiration hazard

Name	Result		
2,5-dimethylheptan-4-one ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		

Information on the likely routes of exposure

Potential acute health effects

Eye contact

Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Defatting to the skm. May cause skin dryness and irritation. No known significant effects or critical hazards. Inhalation Skin contact

Ingestion : N Over-exposure signs/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

Adverse symptoms may include the following

irritation dryness cracking No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary

tks and also chronic effects from short and long term exposure: 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. If we 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 floud 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 nuisese distribe and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

United States Page: 10/15

Cootion 42 Factoriset information			
Product name CA8000/B900B BASE COMPONENT			
Product code CA8000/B900B BASE COMPONENT	Date of issue 22 July 2020	Version 8	

#### Section 12. Ecological information

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

#### Hipaccumulative potential

Product/ingredient name	LogPon	BCF	Potential	
ethyl acetate	0.73	-	low	
pentane-2.4-dione heptan-2-one	0.4	-	low	
4-methylpentan-2-one	1.98	1	low	
ethylbenzene	3.15	79.43	low	

Mobility in soil

: Not available

#### Section 13, Disposal considerations

Disposal considerations

: 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 aution by requirements. Dispose of surphis and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sever unless tully compliant vith the requirements of all authorities unjurisdiction. Waste packaging should be recycled, Incineration or landfill should only be considered winen recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empited containers that have not been cleaned or rinsed unt. Empty containers or liners may relatin 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 wave been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil waterways, drains and severes.

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

United States Page: 12/15





Date of issue/Date of revision 19 June 2020

Product use

Manufacturer

Section 1. Identification

: CA8000B ACTIVATOR COMPONENT Product name Product code : CA8000B ACTIVATOR COMPONENT

Other means of : Not available identification

Relevant identified uses of the substance or mixture and uses advised against : Industrial applications.

Use of the substance/ : Hardener.

Uses advised against : Not applicable

: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 818 362 6711 (412) 434-4515 (U.S.)

Emergency telephone

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

#### Section 2. Hazards identification

OSHA/HCS status

Classification of the

substance or mixture

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CPR 1910.1200).

FLAMMABLE LICUIDS - 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

\*\*Temperature of the mixture consistence of the mixture consi

Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.5% (Dermal), 2.6% (Inhalation)

GHS label elements

Hazard pictograms





Signal word : Danger

United States Page: 1/15

Product code CA8000B ACTIVATOR COMPONENT Date of issue 19 June 2020 Version 8 Product name CA8000B ACTIVATOR COMPONENT

#### Section 3. Composition/information on ingredients

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

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

Inhalation

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. 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. Remove contaminated clothing and shoes. Wash skin thoroughly with soep and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Skin contact

If swallowed, seek medical advice immediately and show this container or label, Keep person warm and at rest, Do NOT induce vomiting, Ingestion

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

Eve contact

No known significant effects or critical hazards

No known significant effects or critical hazards, Harmful If linhaled, May cause respiratory irritation, May cause allergy or asthma symptoms or breathing difficulties if linhaled. Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. No known significant effects or critical hazards.

Ingestion

Over-exposure signs/symptoms

Eve contact : No specific data

Inhalation Adverse symptoms may include the following respiratory tract irritation

wheezing and preathing difficulties

asthma Adverse symptoms may include the following Skin contact

irritation redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment are decided if necessar,

: 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.
No specific treatment. Notes to physician

Specific treatments

United States

Product code CASOOOR ACTIVATOR COMPONENT Date of issue 19 June 2020 Version 8

#### Product name CA8000B ACTIVATOR COMPONENT Section 2. Hazards identification

Fiammable liquid and vapor.
May cause an allergic skin reaction.
Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Precautionary statements

Prevention

Response

Wear protective gloves. Wear protective clothing. Wear eye or face protection. Wear respiratory protection. Keep away from heat, not surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical eventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapor.

breathing vapor.

FilNHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIH: Wash with plenty of water.

Flore in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage Dispose of contents and container in accordance with all local, regional, national and international regulations. Disposal

Supplemental label elements

international regulations.

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 vaportaerosol concentrations above the recommended exposure limits causes headaches. A rowsiness and nausea and may lead to unconceitoisness 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, whereing 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 disables should not be employed in any process in which this product is used. Avoid contact with skin and clothing. Wash thoroughly after handling. Entits took furnes when heated.

Prolonged or repeated contact may dry skin and cause irritation.

Prolonged or repeated contact may dry skin and cause irritation. Hazards not otherwise classified

#### Section 3. Composition/information on ingredients

Substance/mixture

: CA8000B ACTIVATOR COMPONENT Product name

Ingredient name	%	CAS number
examethylene diisocyanate, oligomers.	≥90	28182-81-2
n-butyl acetate	≥1.0 - ≤5.0	123-85-4
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤3.5	1.4742-95-6
1.2.4-trimethylbenzene	≤1.7	1-5-63-6
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

Page: 2/15 United States

Product code CA8000B ACTIVATOR COMPONENT Date of issue 19 June 2020 Version 8 Product name CA8000B ACTIVATOR COMPONENT

#### Section 4. First aid measures

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that furnes are still present, the rescuer should wear an appropriate mask or self-contained breathing appearatus. It may be dangerous to the person providing air 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, CO2, water spray (fog) or foam.

Unsuitable extinguishing

: Do not use water jet.

Specific hazards arising from the chemical

Fiammable 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 trevel a considerable distance to a source of ignition and flash back. Runoff to sever may create fire or explosion hezard.

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 areal fithic 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 apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special protective equipment for fire-fighters

#### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

ve equipment and emergency procedures

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 lightlon sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist, Provide adequate vertilation. Wear appropriate respirator when vertilation is inadequate. Put on appropriate personal protective equipment.

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 personner".

For emergency responders

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).

United States Page: 4/15 Product code CA8000B ACTIVATOR COMPONENT Date of issue 19 June 2020 Version 8 Product name CA8000B ACTIVATOR COMPONENT

#### Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers,	LD50 Dermal	Rabbit	>2000 n1g/kg	-
	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 Orat	Rat	10.768 g/kg	11-
Solvent naphtha (petroleum). light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
1.2.4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
hexamethylene-di-isocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	151 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	22 ppm	4 hours
	LD50 Dermal	Rabbit	0.57 g/kg	1
	LD50 Oral	Rat	0.71 g/kg	-

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

Irritation/Corrosion Conclusion/Summary

Skin There are no data available on the mixture itself Eyes Respiratory There are no data available on the mixture itself. 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 Carcinogenicity

: There are no data available on the mixture itself.

Conclusion/Summary

: There are no data available on the mixture itself.

Reproductive toxicity

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

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

Specific target organ toxicity (single exposure)

United States Page: 9/15

Product code CA8000B ACTIVATOR COMPONENT Date of issue 19 June 2020 Product name CA8000B ACTIVATOR COMPONENT

### Section 11. Toxicological information

There are no data available on the mixture itself. Skin contact to isocyanate monomer There are no data available on the mixture itself. Skin contact to isocyaniate monomer may lead to allergic lung reaction. Based on the properties of the isocyaniate components and considering toxicological data on similar mixtures. this mixture may cause acute irritation and/or sensilization of the respiratory system. leading to an astimiatic condition, wheecing 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. Iver and central nervous systems, Symptoms and signs include headache, dizziness, fatigue, muscular weekness, 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 nause diarnhes 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, inhalstion and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate effects There are no data available on the mixture itself, Potential delayed effects : There are no data available on the mixture itself, Long term exposure Potential immediate : There are no data available on the mixture itself. effects

Potential delayed effects

: There are no data available on the mixture itself,

Potential chronic health effects

 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/o dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. General

No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards.
 No known significant effects or critical hazards. Mutagenicity Teratogenicity Developmental effects No known significant effects or critical hazards No known significant effects or critical hazards

Fertility effects :

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)
ZAS000B ACTIVATOR COMPONENT Hexamethylene diisocyanate, oligomers.	2755.2 2500	2721.9 2500	N/A N/A	12.1 11	1.6
n-butyl acetate	10768	AM	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1.2.4-trimethylbenzene	5000	N/A	N/A	18	1.5
hexamethylene-di-isocyanate	710	570	N/A	0.151	0.124

United States Page: 11/15 Product code CA8000B ACTIVATOR COMPONENT Date of issue 19 June 2020 Version 8 Product name CA8000B ACTIVATOR COMPONENT

#### Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Rexamethylene diisocyanate, oligomers.	Category 3	-	Respiratory tract
n-butyl acetate	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract
	Category 3		Narcotic effects
1,2,4-trimethylbenzene	Category 3	F.	Respiratory tract
hexamethylene-di-isocyanate	Category 3	+	Respiratory tract

Specific target organ toxicity (repeated exposure)

Target organs : Contains material which causes damage to the following organs: brain, central nervous Contains material which may cause damage to the following organs: blood, lungs, upper respiratory tract, skin, eye, lens or cornea.

Aspiration hazard

Skin contact

Name	Result
Folvent naphtha (petroleum). light aromatic	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

Potential acute health effects

Eve contact Inhalation

No known significant effects or critical hazards.

Harmfulf inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

Skin contact reaction.

No known significant effects or critical hazards.

Ingestion

Over-exposure signs/symptoms

Eye contact

 No specific data.
 Adverse symptoms may include the following respiratory tract irritation Inhalation

coughing

wheezing and breathing difficulties

Adverse symptoms may include the following

cracking No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

United States Page: 10/15

Product code CA8000B ACTIVATOR COMPONENT Date of issue 19 June 2020 Version 8 Product name CA8000B ACTIVATOR COMPONENT

# Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Mexamethylene diisocyanate. oligomers,	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
n-butyl acetate	Acute EC50 >100 mg/l Acute LC50 >100 mg/l Acute LC50 18 mg/l	Daphnia - daphnia magna Fish - Danio rerio (zebra fish) Fish	48 hours 96 hours 96 hours
Solvent naphtha (petroleum). light aromatic	Acute LC50 8,2 mg/l	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
<b>K</b> -butyl acetate	TEPA and OECD 301D	83 % - Re:	adily - 28 days	*		- 1
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Fexamethylene diisocyanate. oligomers. n-butyl acetate			-		Not rea Readily	dily

#### Bioaccumulative potential

Product/ingredient name	LogPaw	BCF	Potential
Rexamethylene diisocyanate.	-	3.2	low
oligomers.			
n-butyl acetate	1,78		low
1.2.4-trimethylbenzene	3.63	120,23	low
hexamethylene-di-isocyanate	1.08	-	low

Mobility in soil

: Not available Soil/water partition coefficient (Koc)

# Section 13. Disposal considerations

IT CONSIDER AUDITS

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 profection 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 empited containers that have not been cleaned or inseed 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 heen

United States Page: 12/15