# SAFETY DATA SHEET



Date of issue/Date of revision 2 November 2019

Version 17

### **Section 1. Identification**

Product name : CA 7233A BASE COMPONENT
Product code : CA 7233A BASE COMPONENT

Other means of

: Not available

identification Product type

: Liquid

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

Product use : Industrial applications

Use of the substance/

mixture

: Coating

Uses advised against : Not applicable

Manufacturer : PPG Aerospace PRC-DeSoto

12780 San Fernando Road

Sylmar CA 91342 Phone: 818 362 6711

**Emergency telephone** 

number

: (412) 434-4515 (U S ) (514) 645-1320 (Canada)

01-800-00-21-400 (Mexico)

### Section 2. Hazards identification

**OSHA/HCS status** 

Classification of the substance or mixture

: This material is considered ha ardous by the OSHA Ha ard Communication Standard (29 CFR 1910 1200)

: FLAMMABLE LIQUIDS - Category 2
ACUTE TOXICITY (oral) - Category 4
SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1

SERIOUS EYE DAMAGE - Category 1
SKIN SENSITI ATION - Category 1
CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 37 9%

(Oral) 63 9% (Dermal) 63 9% (Inhalation)

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### Section 2. Hazards identification

**Hazard pictograms** 

: Danger

Signal word Hazard statements

: Highly flammable liquid and vapor

Harmful if swallowed

Causes serious eye damage

Causes skin irritation

May cause an allergic skin reaction

May cause cancer

May cause respiratory irritation

May cause drowsiness or di iness

Causes damage to organs through prolonged or repeated exposure

### Section 2. Hazards identification

Supplemental label elements

: Sanding and grinding dusts may be harmful if inhaled This product contains crystalline silica which can cause lung cancer or silicosis The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications 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 This product either contains formaldehyde or is capable of releasing formaldehyde above 0 5 ppm under certain conditions Formaldehyde is a known cancer ha ard a skin sensiti er and a respiratory sensiti er NTP IARC and OSHA have classified chromium (+6) compounds as carcinogenic 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

: Mixture

**Product name** 

: CA 7233A BASE COMPONENT

≥20 - ≤50	14808-60-7
	14000-00-7
≥20 - ≤50	7789-06-2
≥20 - ≤34	71-36-3
≥5 0 - ≤10	Not available
≥1 0 - ≤5 0	13463-67-7
≥1 0 - ≤5 0	100-51-6
≥1 0 - ≤4 7	1330-20-7
≥0 10 - ≤2 3	1477-55-0
<1 0	100-41-4
<1 0	10294-40-3
	≥20 - ≤34 ≥5 0 - ≤10 ≥1 0 - ≤5 0 ≥1 0 - ≤5 0 ≥1 0 - ≤4 7 ≥0 10 - ≤2 3 <1 0

SUB codes represent substances without registered CAS Numbers

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

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

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

### Section 4. First aid measures

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

#### **Description of necessary first aid measures**

**Eye contact** 

: Check for and remove any contact lenses Immediately flush eyes with running water for at least 15 minutes keeping eyelids open Seek immediate medical attention

Inhalation

: Remove to fresh air Keep person warm and at rest. If not breathing if breathing is irregular or if respiratory arrest occurs provide artificial respiration or oxygen by trained personnel.

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### Section 4. First aid measures

Skin contact : Remove contaminated clothing and shoes Wash skin thoroughly with soap and water

or use recogni ed skin cleanser Do NOT use solvents or thinners

Ingestion : If swallowed seek medical advice immediately and show this container or label Keep

person warm and at rest Do NOT induce vomiting

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

#### Potential acute health effects

**Eye contact** : Causes serious eye damage

Inhalation : Can cause central nervous system (CNS) depression May cause drowsiness or

di iness May cause respiratory irritation

Skin contact: Causes skin irritationDefatting to the skinMay cause an allergic skin reactionIngestion: Harmful if swallowedCan cause central nervous system (CNS) depression

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue di iness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

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

Notes to physician : In case of inhalation of decomposition products in a fire symptoms may be delayed

The exposed person may need to be kept under medical surveillance for 48 hours

**Specific treatments**: No specific treatment

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable 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)

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### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use dry chemical CO2, water spray (fog) or foam

: Do not use water jet

Specific hazards arising from the chemical

: Highly flammable liquid and vapor In a fire or if heated a pressure increase will occur and the container may burst with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion ha ard. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway sewer or drain.

Hazardous thermal decomposition products

Decomposition products may include the following materials: carbon oxides

nitrogen oxides metal oxide/oxides Formaldehyde

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 ha ard area Do not breathe vapor or mist Provide adequate ventilation Wear appropriate respirator when ventilation is inadequate Put on appropriate personal protective equipment

For emergency responders:

: If speciali ed clothing is required to deal with the spillage take note of any information in Section 8 on suitable and unsuitable materials See also the information in "For non-emergency personnel"

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil waterways drains and sewers Inform the relevant authorities if the product has caused environmental pollution (sewers waterways soil or air)

### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk Move containers from spill area Use spark-proof tools and explosion-proof equipment Dilute with water and mop up if water-soluble Alternatively or if water-insoluble absorb with an inert dry material and place in an appropriate waste disposal container Dispose of via a licensed waste disposal contractor

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### Section 6. Accidental release measures

Large spill

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

### Section 7. Handling and storage

**Protective measures** 

Put on appropriate personal protective equipment (d and drink

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

including any incompatibilities

Conditions for safe storage, : Do not store above the following temperature: 35°C (95°F) Store in accordance with local regulations Store in a segregated and approved area Store in original container protected from direct sunlight in a dry cool and well-ventilated area away from incompatible materials (see Section 10) and food and drink Store locked up Eliminate all ignition sources Separate from oxidi ing materials Keep container tightly closed and sealed until ready for use Containers that have been opened must be carefully resealed and kept upright to prevent leakage Do not store in unlabeled containers Use appropriate containment to avoid environmental contamination

# Section 8. Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
rystalline silica respirable powder (<10 microns)	ACGIH TLV (United States, 3/2018).
	TWA: 0 025 mg/m <sup>3</sup> 8 hours Form:
	Respirable
	OSHA PEL Z3 (United States, 6/2016).
	TWA: 10 mg/m <sup>3</sup> / (%SiO2+2) 8 hours Form:
	Respirable
	TWA: 250 mppcf / (%SiO2+5) 8 hours Form:
	Respirable
	OSHA PEL (United States, 5/2018).
	TWA: 50 µg/m³ 8 hours Form: Respirable
	dust
strontium chromate	ACGIH TLV (United States, 3/2018).
	TWA: 0 0005 mg/m³ (measured as Cr) 8
	hours
	OSHA PEL Z2 (United States, 2/2013).
	CEIL: 1 mg/10m <sup>3</sup>
	OSHA PEL (United States, 5/2018).
	TWA: 0 005 mg/m³ (as Cr) 8 hours
butan-1-ol	ACGIH TLV (United States, 3/2018).
	TWA: 20 ppm 8 hours
	OSHA PEL (United States, 5/2018).
	TWA: 300 mg/m <sup>3</sup> 8 hours
	TWA: 300 mg/m 6 hours
proprietary polyaminoamide	None
titanium dioxide	OSHA PEL (United States, 5/2018).
titaliani dioxido	TWA: 15 mg/m <sup>3</sup> 8 hours Form: Total dust
	ACGIH TLV (United States, 3/2018).
	TWA: 10 mg/m <sup>3</sup> 8 hours
ben yl alcohol	IPEL (PPG).
ben yraiconor	TWA: 10 ppm
	STEL: 50 ppm
xylene	ACGIH TLV (United States, 3/2018).
Aylerie	STEL: 651 mg/m³ 15 minutes
	STEL: 051 flight 15 flintates
	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
m-phenylenebis(methylamine)	ACGIH TLV (United States, 3/2018).
m phonylohobis(monylanille)	Absorbed through skin.
	C: 0 1 mg/m <sup>3</sup>
athylban ana	ACGIH TLV (United States, 3/2018).
ethylben ene	TWA: 20 ppm 8 hours
	OSHA PEL (United States, 5/2018).
	,
	TWA: 435 mg/m³ 8 hours
harium ahramata	TWA: 100 ppm 8 hours
barium chromate	
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### Section 8. Exposure controls/personal protection

ACGIH TLV (United States, 3/2018).

TWA: 0 0002 mg/m³ (measured as Cr) 8

hours Form: Inhalable fraction

STEL: 0 0005 mg/m³ (measured as Cr) 15

minutes Form: Inhalable fraction OSHA PEL (United States, 5/2018). TWA: 0 005 mg/m³ (as Cr) 8 hours OSHA PEL Z2 (United States, 2/2013).

CEIL: 1 mg/10m3

**OSHA PEL** (United States).

TWA: 5 ma/m<sup>3</sup>

#### Key to abbreviations

= Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists С = Ceiling Limit

F **IPEL** = Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration

= Respirable

= OSHA 29 CFR 1910 1200 Subpart - Toxic and Ha ardous Substances

S = Potential skin absorption SR = Respiratory sensiti ation

SS = Skin sensiti ation

STEL = Short term Exposure limit values

TD = Total dust

TLV = Threshold Limit Value TWA = Time Weighted Average

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

procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits personal workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment Reference should be made to appropriate monitoring standards Reference to national guidance documents for methods for the determination of ha ardous 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 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 Skin protection

: Chemical splash goggles and face shield

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### Section 9. Physical and chemical properties

**VOC** : 365 g/l **% Solid. (w/w)** : 73

### 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 ha ardous reactions will not occur

Conditions to avoid : When exposed to high temperatures may produce ha ardous decomposition products

Refer to protective measures listed in sections 7 and 8

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidi ing agents strong alkalis strong acids

Hazardous decomposition products

: Decomposition products may include the following materials: carbon monoxide carbon dioxide smoke oxides of nitrogen

### **Section 11. Toxicological information**

#### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
strontium chromate	LD50 Oral	Rat	3118 mg/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6 82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ben yl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1 23 g/kg	-
xylene	LD50 Dermal	Rabbit	>1 7 g/kg	-
	LD50 Oral	Rat	4 3 g/kg	-
m-phenylenebis (methylamine)	LC50 Inhalation Gas	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
ethylben ene	LC50 Inhalation Vapor	Rat	17 8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17 8 g/kg	-
	LD50 Oral	Rat	3 5 g/kg	-

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

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### **Section 11. Toxicological information**

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>x</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
m-phenylenebis (methylamine)	Skin - Severe irritant	Rat	-	4 hours	4 hours

**Conclusion/Summary** 

Skin: There are no data available on the mixture itselfEyes: There are no data available on the mixture itselfRespiratory: There are no data available on the mixture itself

**Sensitization** 

Product/ingredient name	Route of exposure	Species	Result
m-phenylenebis (methylamine)	skin	Mouse	Sensiti ing

**Conclusion/Summary** 

Skin: There are no data available on the mixture itselfRespiratory: There are no data available on the mixture itself

**Mutagenicity** 

Product/ingredient name	Test	Experiment	Result
14. 11. 11. 11. 11.	OECD 471 Bacterial Reverse Mutation Test	Subject: Bacteria	Negative

**Conclusion/Summary** 

: proprietary polyaminoamide: Not mutagenic in Ames test

**Carcinogenicity** 

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

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
rystalline silica respirable powder (<10 microns)	-	1	Known to be a human carcinogen
strontium chromate	+	1	Known to be a human carcinogen
titanium dioxide	-	2B	-
xylene	-	3	-
ethylben ene	-	2B	-
barium chromate	+	1	Known to be a human carcinogen

**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** 

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

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### **Section 11. Toxicological information**

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
butan-1-ol	Category 3	Not applicable	Narcotic effects
	Category 3	Not applicable	Respiratory tract irritation
proprietary polyaminoamide	Category 3	Not applicable	Respiratory tract irritation
xylene	Category 3	Not applicable	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
strontium chromate ethylben ene	Category 2 Category 2	Not determined	Not determined Not determined hearing organs Not determined

#### **Target organs**

: Contains material which causes damage to the following organs: blood kidneys liver heart spleen brain bone marrow central nervous system (CNS)

Contains material which may cause damage to the following organs: lungs the nervous system gastrointestinal tract cardiovascular system upper respiratory tract immune system skin ears eye lens or cornea

### **Aspiration hazard**

Result
ASPIRATION HA ARD - Category 1 ASPIRATION HA ARD - Category 1

### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye damage

Inhalation : Can cause central nervous system (CNS) depression May cause drowsiness or

di iness May cause respiratory irritation

**Skin contact**: Causes skin irritation Defatting to the skin May cause an allergic skin reaction

Ingestion : Harmful if swallowed Can cause central nervous system (CNS) depression

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue di iness/vertigo unconsciousness

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### Section 11. Toxicological information

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness drvness cracking

blistering may occur

Ingestion Adverse symptoms may include the following:

stomach pains

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

Conclusion/Summary

: There are no data available on the mixture itself This product either contains formaldehyde or is capable of releasing formaldehyde above 0 5 ppm under certain conditions Formaldehyde is a known cancer ha ard a skin sensiti er and a respiratory sensiti er This product contains crystalline silica which can cause lung cancer or silicosis The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification For many PPG products TiO2 is utili ed as a raw material in a liquid coating formulation In this case the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8) Can form nitrosamines in the presence of certain organic materials and if heated 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 di iness 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 eve contact

Short term exposure

**Potential immediate** 

effects

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

Potential delayed effects

: There are no data available on the mixture itself

Potential chronic health effects

General

: Causes damage to organs through prolonged or repeated exposure Prolonged or repeated contact can defat the skin and lead to irritation cracking and/or dermatitis Once sensiti ed a severe allergic reaction may occur when subsequently exposed to very low levels

Carcinogenicity : May cause cancer Risk of cancer depends on duration and level of exposure

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# **Section 11. Toxicological information**

Mutagenicity: No known significant effects or critical ha ardsTeratogenicity: No known significant effects or critical ha ardsDevelopmental effects: No known significant effects or critical ha ardsFertility effects: No known significant effects or critical ha ards

**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)
ZA 7233A BASE COMPONENT strontium chromate	755 500	3408 4 N/A	117012 5 N/A	142 N/A	9 1 N/A
butan-1-ol	790	3400	N/A	24	N/A
ben yl alcohol	1230	2000	N/A	N/A	15
xylene	4300	1100	N/A	11	15
m-phenylenebis(methylamine)	930	2500	4500	N/A	N/A
ethylben ene	3500	17800	N/A	17 8	1 5
barium chromate	500	N/A	N/A	11	15

# **Section 12. Ecological information**

#### **Toxicity**

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

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>b</b> en yl alcohol	-	-	Readily
xylene	-	-	Readily
ethylben ene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<mark>b</mark> utan-1-ol	0 88	-	low
ben yl alcohol	11	-	low
xylene	3 16	7 4 to 18 5	low
m-phenylenebis(methylamine)	0 18	2 69	low
ethylben ene	3 15	79 43	low

#### **Mobility in soil**

Soil/water partition : Not available

coefficient (Koc)

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### **Section 12. Ecological information**

# Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimi ed 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	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	II	II	II
Environmental hazards	No	Yes	Yes The environmentally ha ardous substance mark is not required
Marine pollutant substances	Not applicable	(strontium chromate Formaldehyde oligomeric reaction products with phenol and m-phenylenebis (methylamine))	Not applicable
Product RQ (lbs)	38 393	Not applicable	Not applicable
RQ substances	strontium chromate xylene)	Not applicable	Not applicable

#### **Additional information**

Package si es shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements

**IMDG**: The marine pollutant mark is not required when transported in si es of ≤5 L or ≤5 kg

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### 14. Transport information

IATA

: The environmentally ha ardous substance mark may appear if required by other transportation regulations

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

### Section 15. Regulatory information

#### **United States**

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

United States - TSCA 12(b) - Chemical export notification:

strontium chromate Annual notification

**SARA 302/304** 

**SARA 304 RQ** : Not applicable **Composition/information on ingredients** 

No products were found

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 2

> ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITI ATION - Category 1 CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

HNOC - Defatting irritant

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

Name	%	Classification
fystalline silica respirable powder (<10 microns)	≥20 - ≤50	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1
strontium chromate	≥20 - ≤50	ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
butan-1-ol	≥20 - ≤34	FLAMMABLÉ LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

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# **Section 15. Regulatory information**

		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
proprietary polyaminoamide	≥5 0 - ≤10	COMBUSTIBLE DUSTS
		SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITI ATION - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
titanium dioxide	≥1 0 - ≤5 0	CARCINOGENICITY - Category 2
ben yl alcohol	≥1 0 - ≤5 0	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
xylene	≥1 0 - ≤4 7	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 HA ARD - Category 1
m-phenylenebis(methylamine)	≥0 10 - ≤2 3	ACUTE TOXICITY (oral) - Category 4
, , , , , , , , , , , , , , , , , , , ,		ACUTE TOXICITY (inhalation) - Category 4
		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITI ATION - Category 1B
ethylben ene	<10	FLAMMABLE LIQUIDS - Category 2
, , , , , , , , , , , , , , , , , , , ,		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) (hearing organs) - Category 2
		ASPIRATION HA ARD - Category 1
		HNOC - Defatting irritant
barium chromate	<1 0	OXIDI ING SOLIDS - Category 1
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 1A
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		HNOC - Avoid contact with organic materials

### **SARA 313**

<u>Cnemical name</u>	<u>CAS number</u>	<u>Concentration</u>
: strontium chromate	7789-06-2	10 - 30
butan-1-ol	71-36-3	10 - 30
xylene	1330-20-7	1 - 5
ethylben ene	100-41-4	0 1 - 1
barium chromate	10294-40-3	01-1
	: strontium chromate butan-1-ol xylene ethylben ene	: strontium chromate       7789-06-2         butan-1-ol       71-36-3         xylene       1330-20-7         ethylben ene       100-41-4

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

### California Prop. 65

MARNING: Cancer and Reproductive Harm - www P65Warnings ca gov

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**Product code CA 7233A BASE COMPONENT** Product name CA 7233A BASE COMPONENT Date of issue 2 November 2019 Version 17

### Section 16. Other information

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

Health: Flammability: 3 Physical hazards:

(\*) - Chronic effects

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

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

National Fire Protection Association (U.S.A.)

Health: 3 Flammability: 3 Instability: 0

Date of previous issue : 5/17/2019

Organization that prepared

the MSDS

: EHS

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmoni ed System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate 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 availableSGG = Segregation Group

UN = United Nations

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

> **United States** Page: 18/18

# SAFETY DATA SHEET



Date of issue/Date of revision 24 September 2019

Version 15

### **Section 1. Identification**

: CA 7233B ACTIVATOR COMPONENT **Product name Product code** : CA 7233B ACTIVATOR COMPONENT

Other means of

: Not available.

identification

**Product type** : Liquid.

#### Relevant identified uses 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

Svlmar, CA 91342 Phone: 818 362 6711

**Emergency telephone** 

number

: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

### Section 2. Hazards identification

**OSHA/HCS** status

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

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) -

Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 33.8%

(Inhalation)

**GHS label elements** 

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### Section 2. Hazards identification

#### **Hazard pictograms**







Signal word

**Hazard statements** 

- : Danger
- : Highly flammable liquid and vapor.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction. Suspected of causing cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure. (hearing organs)

#### **Precautionary statements**

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Photosensitive agents: In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

Storage Disposal

- : Store locked up. Store in a well-ventilated place. Keep cool.
- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

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

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

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Product code CA 7233B ACTIVATOR COMPONENT Date of issue 24 September 2019Version 15

**Product name CA 7233B ACTIVATOR COMPONENT** 

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : CA 7233B ACTIVATOR COMPONENT

Ingredient name	%	<b>CAS</b> number
<mark>≰-</mark> chloro-α,α,α-trifluorotoluene	≥50 - ≤63	98-56-6
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	≥20 - ≤34	25068-38-6
xylene	≥5.0 - ≤10	1330-20-7
Epoxy resin (MW ≤ 700)	≥0.10 - ≤2.8	25068-38-6
2,2-bis(acryloyloxymethyl)butyl acrylate	≥1.0 - ≤5.0	15625-89-5
ethylbenzene	≥0.10 - ≤2.9	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 reporting in this section.

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

### Section 4. First aid measures

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

#### **Description of necessary first aid measures**

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed

– get medical attention if pain, irritation or blistering occurs after contact.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed

- get medical attention if pain, irritation, rash or blistering occurs after contact.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

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

#### Potential acute health effects

Eye contactInhalationCauses serious eye irritation.May cause respiratory irritation.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

Over-exposure signs/symptoms

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### Section 4. First aid measures

**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.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable 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

Unsuitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides

halogenated compounds

carbonyl halides

: Do not use water jet.

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.

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Product code CA 7233B ACTIVATOR COMPONENT

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Product name CA 7233B ACTIVATOR COMPONENT

### Section 5. Fire-fighting measures

**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 nonemergency 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.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

> **United States** Page: 5/16

### **Product name CA 7233B ACTIVATOR COMPONENT**

### Section 7. Handling and storage

### **Special precautions**

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
<mark>≠-</mark> chloro-α,α,α-trifluorotoluene	IPEL (PPG).
	TWA: 25 ppm
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	None.
xylene	ACGIH TLV (United States, 3/2018).
	STEL: 651 mg/m³ 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.
Epoxy resin (MW ≤ 700)	None.
2,2-bis(acryloyloxymethyl)butyl acrylate	None.
ethylbenzene	ACGIH TLV (United States, 3/2018).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.

#### Key to abbreviations

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

### Section 8. Exposure controls/personal protection

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

### Consult local authorities for acceptable exposure limits.

# procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### 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. 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** Skin protection **Hand protection**

: Chemical splash goggles.

: 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 **Body protection**

: polvethylene butyl rubber

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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate. certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

> **United States** Page: 7/16

### Section 9. Physical and chemical properties

#### **Appearance**

Physical state : Liquid.
Color : Not available.
Odor : Not available.
Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: -4.44°C (24°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.

Relative density : 1.2

Density ( lbs / gal ) : 10.01

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n- : Not available.

octanol/water

Viscosity : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

**VOC** : 258 g/l **% Solid. (w/w)** : 34.81

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition** 

products

: Decomposition products may include the following materials: carbon monoxide, carbon

dioxide, smoke, oxides of nitrogen.

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### **Product name CA 7233B ACTIVATOR COMPONENT**

# **Section 11. Toxicological information**

### **Information on toxicological effects**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>4</b> -chloro-α,α,α-trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin				
	LD50 Oral	Rat	11.4 g/kg	-
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
2,2-bis(acryloyloxymethyl)	LD50 Dermal	Rabbit	5170 mg/kg	-
butyl acrylate				
	LD50 Oral	Rat	5.19 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	-

### **Conclusion/Summary Irritation/Corrosion**

: There are no data available on the mixture itself.

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Epoxy resin (MW ≤ 700)	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	-	-
2,2-bis(acryloyloxymethyl) butyl acrylate	Skin - Irritant	Rabbit	-	-	-

#### **Conclusion/Summary**

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

### **Sensitization**

3	Route of exposure	Species	Result
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin			Sensitizing
Epoxy resin (MW ≤ 700) 2,2-bis(acryloyloxymethyl) butyl acrylate			Sensitizing Sensitizing

### **Conclusion/Summary**

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

**United States** Page: 9/16 Product code CA 7233B ACTIVATOR COMPONENT

Date of issue 24 September 2019 Version 15

**Product name CA 7233B ACTIVATOR COMPONENT** 

### **Section 11. Toxicological information**

**Mutagenicity** 

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

**Carcinogenicity** 

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

Classification

Product/ingredient name	OSHA	IARC	NTP
xylene 2,2-bis(acryloyloxymethyl) butyl acrylate	-	3 2B	-
ethylbenzene	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

Not listed/not regulated: -

Reproductive toxicity

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

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
<b>⊈</b> -chloro-α,α,α-trifluorotoluene	Category 3		Respiratory tract irritation
xylene	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	hearing organs

: Contains material which causes damage to the following organs: brain, central nervous Target organs

system (CNS).

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

#### **Aspiration hazard**

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

#### Information on the likely routes of exposure

### Potential acute health effects

Eye contact : Causes serious eye irritation.

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### Section 11. Toxicological information

Inhalation : May cause respiratory irritation.

: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Skin contact

: No known significant effects or critical hazards. Ingestion

Over-exposure signs/symptoms

: Adverse symptoms may include the following: Eye contact

> 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.

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

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

> have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, 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. 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

**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

: May cause damage to organs through prolonged or repeated exposure. Prolonged or General

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.

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### **Section 11. Toxicological information**

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

**Numerical measures of 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)
<ul> <li>7233B ACTIVATOR COMPONENT</li> <li>4-chloro-α,α,α-trifluorotoluene</li> <li>reaction product: bisphenol-A-(epichlorhydrin); epoxy resin</li> </ul>	28281.4	2364	N/A	72.3	9.3
	13000	2500	N/A	33.08	N/A
	11400	2500	N/A	N/A	N/A
xylene Epoxy resin (MW ≤ 700) 2,2-bis(acryloyloxymethyl)butyl acrylate ethylbenzene	4300	1100	N/A	11	1.5
	2500	2500	N/A	N/A	N/A
	5190	5170	N/A	N/A	N/A
	3500	17800	N/A	17.8	1.5

# **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
	Acute LC50 1.8 mg/l Chronic NOEC 0.3 mg/l	Daphnia Daphnia	48 hours 21 days
2,2-bis(acryloyloxymethyl) butyl acrylate	Acute LC50 0.87 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
reaction product: bisphenol-A-	OECD 301F	5 % - 28 days	-	-
(epichlorhydrin); epoxy resin Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
reaction product: bisphenol-A-	-	-	Not readily
(epichlorhydrin); epoxy resin			
xylene	-	-	Readily
Epoxy resin (MW ≤ 700)	-	-	Not readily
ethylbenzene	-	-	Readily

### **Bioaccumulative potential**

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### Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	3	31	low
xylene	3.16	7.4 to 18.5	low
Epoxy resin (MW ≤ 700)	3	31	low
ethylbenzene	3.15	79.43	low

**Mobility in soil** 

Soil/water partition coefficient (K<sub>oc</sub>)

: 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.

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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	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	reaction product: bisphenol-A- (epichlorhydrin); epoxy resin , Epoxy resin (MW ≤ 700))	Not applicable.

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### 14. Transport information

Product RQ (lbs)	1102.6	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**: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

### **Section 15. Regulatory information**

#### **United States**

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

United States - TSCA 12(b) - Chemical export notification:

4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene One time notification

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 2

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) -

Category 2

**HNOC** - Defatting irritant

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

Name	%	Classification
<b>⊈</b> -chloro-α,α,α-trifluorotoluene		FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	≥20 - ≤34	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

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### Section 15. Regulatory information

	SKIN SENSITIZATION - Category 1B
≥5.0 - ≤10	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
≥0.10 - ≤2.8	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1B
≥1.0 - ≤5.0	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1B
	CARCINOGENICITY - Category 2
≥0.10 - ≤2.9	FLAMMABLE LIQUIDS - Category 2
	ACUTE TOXICITY (inhalation) - Category 4
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) (hearing organs) - Category 2
	ASPIRATION HAZARD - Category 1
	HNOC - Defatting irritant
	≥0.10 - ≤2.8 ≥1.0 - ≤5.0

#### **SARA 313**

Supplier notification

Chemical name

Explanation

CAS number

1330-20-7

5 - 10

ethylbenzene

100-41-4

1 - 5

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

### California Prop. 65

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

### **Section 16. Other information**

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

Health: 2 \* Flammability: 3 Physical hazards: 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 Flammability: 3 Instability: 0

Date of previous issue : 8/10/2019
Organization that prepared : EHS

the MSDS

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### **Section 16. Other information**

**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 = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

UN = United Nations

▼ Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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